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CHOICE IOWA SEEDS

58TH ANNUAL
CATALOGUE



of 1923



FOR SPECIAL OFFER
EVERGREEN LAWN GRASS SEED
SEE PAGE 40
HYDRANGEA SEE PAGE 71

SEEDSMEN

TO THE

AMERICAN

PEOPLE

IOWA SEED CO.

DES MOINES, IOWA, U.S.A.

W. W. ARNOLD

ESTABLISHED
1865

1865

Fifty eight Years Successful
Business!

1923

Des Moines, Iowa, January, 1923

Greeting to Our Customers

Prospects for the future give promise that the farmer and gardener will again be prosperous. We have had a year of wonderful abundance. Enormous crops have offset in some measure the too low prices received for the produce. Let us keep up production to the utmost and we will solve the problem of prosperity for all the people. We cannot prosper as a nation and maintain happiness among all the people without an abundance of the fruits of earth. We urge all our friends to utilize every foot of available ground, no matter how large or small. Our Choice Iowa Seeds will help you get larger harvests of better produce, because we must safeguard the quality of our stocks if we are to merit our title,

"SEEDSMEN TO THE AMERICAN PEOPLE"

OUR GUARANTEE

In trading by mail you have to buy seeds without seeing them. We protect you in this, however, because if any seeds from us are not satisfactory upon arrival and inspection, return them to us and we will refund the money you paid for them. With this agreement you can purchase your seeds of us in every confidence and just as well as though you traded over our counters. You are sole judge; all we require is that they shall be sent back to us within fifteen days from date of receipt by you. This applies to garden, farm and flower seeds. We cannot guarantee a crop, but we can and do guarantee to take seeds back that you yourself are not pleased with. The fifteen days will give you ample time to test them in any way you want. It will give you time to send samples for inspection, analysis or test to the State Seed Inspector or to the Agricultural Experiment Station. Our stocks will stand the closest scrutiny and we are ready to be judged accordingly. You will readily see that we could not make this offer unless our stocks were first class and give satisfaction to the buyer.

TO OUR NEW FRIENDS

Each year this catalogue goes to prospective buyers who have never traded with us and are not acquainted with our stocks or methods. To such just a few words of solicitation. This book is compiled with great care that it may be a help to you in your gardening and farming operations. Both text and illustrations are truthful in detail, and it will be found a real guide to better farms and better gardens. Read it carefully, weigh all the statements and send us a trial order. We will gladly leave in your hands the question of future and continued patronage. Each year our friends increase in number, and this is because those who give us trial orders become firm friends and continuous patrons. We sell the best possible stocks at the lowest prices consistent with profitable merchandizing. Price, however, must be second to quality. You do not want poor seeds at any price. We affirm without qualification that our prices are as low as quality supplied will justify. We want your trade and will give value received in quality seeds for money sent us.



RETAIL STORE AND OFFICE
209-211 WALNUT STREET

Iowa Seed Company, 209-211 Walnut St. Des Moines, Iowa

M. Kurtzweil, Pres.; E. T. Peirce, Vice-Pres.; J. N. Albright, Treas.; Geo. L. Kurtzweil, Sec'y; C. W. Davison, Director.

SUGGESTIONS TO CUSTOMERS

Our constant aim is to make the highest quality the first consideration, and next to put our prices as low as good seed can be sold

Order Early: The best time to order is just as soon as you receive this catalogue, as we can always give your orders more of our personal attention if they come in before the rush of the spring trade. Please use the order sheet, as it makes it more convenient for us in filling orders. You will note there are two order sheets enclosed; one for seeds, tools and miscellaneous goods, and the other for plants, bulbs and nursery stock. If you will use them as intended, it will greatly facilitate the execution of your orders. Terms are invariably cash with order, as we keep no book accounts in our mail order department. Postage stamps received the same as cash.

Shipping: There are three interurban companies and fifteen railroad lines at Des Moines, so that quick shipments can be made.

Charges Prepaid: All Vegetable and Flower Seeds, Bulbs and Plants, except those noted, are sent prepaid by mail or express by the quickest and most direct routes, unless ordered otherwise, and we guarantee the safe arrival. Seeds sold by the peck or bushel, Field Seeds, Potatoes, Implements and other heavy goods are sent by freight or express, customers paying charges. Remember seeds go at special second-class rates by express.

Seeds by Mail: Seeds, plants and bulbs may be sent by Parcel Post. The table of rates, page 1, gives amount of postage required on quantities over 1 pound. Miscellaneous merchandise may go by Parcel Post, and mailing weight is given on items of this kind.

Delivery: The point of delivery of all goods is on cars at Des Moines. When we quote a delivery price it means simply that we prepay the freight, express charges or postage.

Many of our farmer customers live at railroad stations where there are no agents. In such cases we must request them to send sufficient money to prepay freight charges on heavy shipments, also in cases where goods are ordered to be sent by freighter express to such great distances that cost of transportation will nearly or quite equal the value of the goods.

Market Gardeners and others who buy vegetable seeds in bulk to the amount of \$5.00 or more are requested to send their list of seeds wanted to us and let us make special quotations.

Premiums: Each year we put up thousands of packets of new or particularly desirable varieties of seeds for free distribution to our customers. We will send these out with the seeds ordered by you.

Small Orders: We take pains to fill orders promptly and correctly, no matter if only for but one packet of seeds, but we request that plant orders amount to at least 25 cents, and nursery stock to at least 50 cents, as otherwise they are filled at a loss to us.

Our Responsibility: As this book will probably go into the hands of some who are unacquainted with us, this question will naturally arise, and in answer to same we refer you, by permission, to the Valley National Bank of this city, the postmaster, or to any express company.

What We Guarantee: That all money sent to us for seed shall reach us if sent us by registered letter, postoffice or express money order, or bank draft, made payable to our order. That your order will be filled promptly and well. That goods ordered will reach you safely. Keep a copy of your order. Sometimes persons think they have ordered articles which they have omitted, and blame us for not sending them.

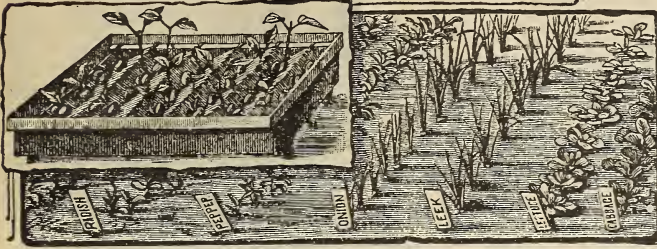
About Warranting: We thoroughly test all our seeds and nothing is sent out which we do not believe to be good in every respect. When it is considered how many are the contingencies on which the success of any crop depends, such as sowing too deep or too shallow, too wet or dry soil, unfavorable weather, insects, etc., our customers will readily see that it would be sheer folly for anyone to warrant seeds to produce a perfect crop, and we want it plainly understood that while we exercise great care to have all seeds pure and reliable, and also true to name, we do not give any warranty express or implied as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out and we will not be in any way responsible for the crop. If the purchaser does not accept the seeds on these terms and conditions, they are to be returned at once, and the money that has been paid for same will be refunded. No officer, agent or employee of this company is authorized to make any warranty whatsoever. However, we have so much confidence in our seeds that we hereby agree to refill any retail order for vegetable or flower seeds free of charge should they prove otherwise than as we represent them. We know of no responsible seed firm in the world which guarantees seeds any further than this, compare with other seed catalogues and you will see that we are right.

Plant Orders: Orders for plants will be filled as early in the spring as we consider it safe to send them. If ordered for immediate shipment in severe weather they will be sent at purchaser's risk.

Discounts: We have this year made the prices in this catalogue as low as our high grade seeds can be sold, and we can give no discounts. In ordering seeds in bulk you may deduct ten cents per pound on vegetable seeds, such as are listed prepaid. If you are willing to have them sent by express or freight at your expense.

IF YOU ONCE PURCHASE VEGETABLE SEEDS OF US YOU WILL CONTINUE A PATRON. THE QUALITY INVITES CONFIDENCE.

VEGETABLE SEEDS



SEED TESTING AND TRIALS

please. The vegetable seed department is under the personal supervision of the president of our company. He places the contracts, inspects the growing crops, superintends the farm operations in summer and during the busy months in spring he gives personal oversight to the order filling department. We give you high quality in our **Choice Iowa Seeds**.

SEEDS BY PARCEL POST

Customers are urged to use the Parcel Post. We return Excess Postage.

BE SURE AND ADD ONE POUND ADDITIONAL TO COVER WEIGHT OF PACKING

Many of our friends will prefer to have their seeds come by parcel post rather than by express. There is not much difference in the cost of transportation by these two methods, but if you want the seeds to come by mail you must send postage, because it must be prepaid. We submit herewith a table showing the postage per pound to each state. This is figured in the way to be most easily understood by our friends. The only thing to remember is to add one pound over the actual amount of seeds you order to cover the weight of packing. For example, you live in Alabama and you order three pounds of Gradus peas by parcel post. You will add 24 cents to the price quoted in the catalogue. If you live in Illinois and want 15 lbs. of peas by parcel post, add 64 cents to the price in the catalogue.

If the postage you send is more than is necessary the surplus will be returned to you inclosed in a small envelope within the package. If you do not send postage we will take it for granted you want the goods forwarded by express or freight.

Remember that we pay the postage on garden seeds ordered by the packet, ounce, quarter pound or pound, no matter what the cost, but on larger quantities postage must be added if we are to send them by mail.

OUR POSTAGE RATE FROM DES MOINES TO ALL IOWA POINTS IS ONE CENT PER POUND.

STATE	Postage Per Lb.	STATE	Postage Per Lb.
Alabama	6 cents	Nebraska	4 cents
Alaska	12 cents	Nevada	8 cents
Arizona	8 cents	New Hampshire ..	8 cents
Arkansas	4 cents	New Jersey	8 cents
California	10 cents	New Mexico	8 cents
Canal Zone	12 cents	New York	8 cents
Colorado	6 cents	North Carolina ..	8 cents
Connecticut	8 cents	North Dakota	6 cents
Delaware	6 cents	Ohio	6 cents
Dist. Columbia ..	6 cents	Oklahoma	4 cents
Florida	8 cents	Oregon	10 cents
Georgia	6 cents	Philippines, Samoa	12 cents
Hawaii or Guam ..	12 cents	Pennsylvania	6 cents
Idaho	8 cents	Porto Rico	12 cents
Illinois	4 cents	Rhode Island	8 cents
Indiana	4 cents	South Carolina ..	6 cents
Kansas	4 cents	South Dakota	4 cents
Kentucky	6 cents	Tennessee	6 cents
Louisiana	6 cents	Texas	8 cents
Maine	8 cents	Utah	8 cents
Maryland	6 cents	Vermont	8 cents
Massachusetts	8 cents	Virginia	6 cents
Michigan	4 cents	Virgin Islands ..	12 cents
Minnesota	4 cents	Washington	10 cents
Mississippi	6 cents	West Virginia	6 cents
Missouri	4 cents	Wisconsin	4 cents
Montana	8 cents	Wyoming	6 cents

ASPARAGUS

(One ounce will sow forty feet of drill)

Asparagus is so easily grown every garden should contain a bed. A bed ten feet square requiring 50 plants, will give abundant supply for an ordinary family. Sow early in spring in rows a foot apart; keep clean by frequent weeding and hoeing. Circular on How to Make an Asparagus Bed, free.

BONVALLET'S GIANT.—Entirely distinct variety, that produces shoots which are white as long as they are fit for use. Robust and vigorous in habit, and throws up large shoots. Pkt. 5c; oz. 10; ¼ lb. 20c; lb. \$1.00.

PALMETTO.—Stalks frequently measure 2 inches in diameter, and even when of extra length are perfectly tender when cooked. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.

CONOVER'S COLOSSAL.—The standard variety. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.

ASPARAGUS ROOTS

Our roots are strong and healthy. We recommend the 1-year-old roots.

CONOVER'S COLOSSAL.—One year plants.—Per doz. 30c, 100 for \$1.50, postpaid. By express or freight, not prepaid, 100 for \$1.35, 1,000 for \$10.

Two year plants.—Per doz. 50c, 100 for \$2.50, postpaid. By express or freight, not prepaid, 100 for \$2.00, 1,000 for \$15.00.

PALMETTO.—One year plants.—Per doz. 30c, 100 for \$1.50, postpaid. By express or freight, not prepaid, 100 for \$1.35, 1,000 for \$10.00.

Two year plants.—Per doz. 50c, 100 for \$2.50, postpaid. By express or freight, not prepaid, 100 for \$2.00, 1,000 for \$17.00.

BONVALLET'S GIANT.—Same as Palmetto above.



BONVALLET'S GIANT

ARTICHOKE

A great delicacy. A perennial producing the large flower heads, which are the part eaten, the second season and every year thereafter. Sow seed and when weather becomes settled transplant in rows 4 feet apart and 2 feet in the row.

LARGE GREEN GLOBE.—The best variety for general use; buds large; scales green; very thick, fleshy. Pkt. 10c; oz. 75c; ¼ lb. \$2.25.

BROCCOLI

(One ounce will produce about 3,000 plants.)

Growth and habit like cauliflower, except more hardy, and heads are not so compact. Does not thrive during hot or dry weather but makes fine heads in the fall. Set in permanent beds in June.

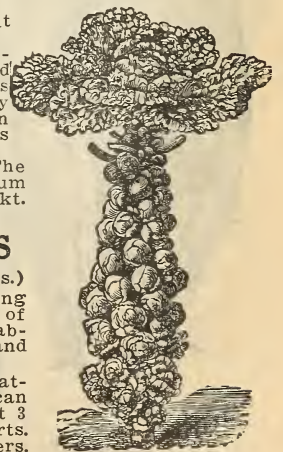
EARLY LARGE WHITE.—The most popular sort. Has medium sized, creamy white heads. Pkt. 10c; oz. 40c.

BRUSSELS SPROUTS

(One ounce for about 3,000 plants.)

Of the cabbage family, producing numerous heads along the stem, of most delicious quality, with cabbage-like head at top. Use and cultivate like winter cabbage.

AMERICAN MAMMOTH.—Greatly superior variety of American origin, which forms heads about 3 weeks earlier than other sorts. Profitable for market gardeners. Pkt. 10c. oz. 35c. ¼ lb. \$1.00.



BRUSSELS SPROUTS

PLEASE USE THE BLACK INK ORDER SHEET FOR SEEDS AND THE GREEN ONE FOR PLANTS AND NURSERY STOCK

BEANS

DWARF BUSH VARIETIES

(One pound will sow 50 ft. of drill.)

Dwarf or bush beans require no support and may be planted in drills or hills. They do best if not crowded. Beans are tender annuals and cannot be planted until danger of frost is past. Do not plant more than two inches deep. Never cultivate when the plants are wet.

WAX POD SORTS

BRITTLE WAX.—Claimed to be earlier than Golden Wax. Plant is a strong grower with large foliage and very productive. Pods are nearly straight, rather broad, solid and 4 to 6 inches long. Pods stringless, quality excellent. Pkt. 10c; ¼ lb. 15c; lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

IMPROVED GOLDEN WAX.—The most popular variety. A great improvement on the old Golden Wax, having larger pods and being more prolific. It is one of the handsomest beans. Pods are rich golden yellow, of perfect shape and rust proof. Best for family or market garden. Pkt. 10c; ¼ lb. 15c; lb. 40c; postpaid. Not prepaid, any quantity at 30c per pound.

CHALLENGE BLACK WAX.—This strain of Black Wax is in our opinion superior to that generally offered. Pods tender, round, fleshy and stringless. Pkt. 10c, ¼ lb. 15c; lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

SURECROP WAX.—A valuable variety of dwarf wax beans. Very productive, bearing large, golden yellow pods in great abundance and being hardy, may be planted early. Pkt. 10c, ¼ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30c per lb.

WARDWELL'S KIDNEY WAX.—A very popular variety with market gardeners, bearing long, flat pods of delicate, waxy, yellow color. Pkt. 10c, ¼ lb. 15c; lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

POLE BEANS

Require support for best results. Frequently planted among the corn and good returns are secured, but if you can furnish poles for support they will produce wonderfully. The extra care given will be fully repaid.

OLD HOMESTEAD.—Is also known as Improved Kentucky Wonder. Enormously productive, pods hanging in great clusters from top to bottom of the pole. Entirely stringless, pods of silvery green color. Can be grown with corn to good advantage. Pkt. 10c; ¼ lb. 15c; lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

LAZY WIFE.—Very popular. Pods produced in great abundance, measure from 4½ to 6 inches in length. Retain their rich, tender and stringless qualities until nearly ripe. The white beans are large, round, plump, and make excellent winter shell beans. Pkt. 10c; ¼ lb. 15c; lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

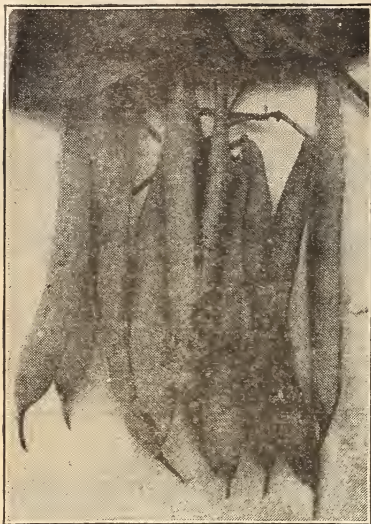
SPECKLED CUT SHORT.—The old-fashioned cornfield bean so popular. Good quality and a good yielder. Pkt. 10c; ¼ lb. 15c; lb. 40, postpaid. Not prepaid, any quantity at 30 cents per pound.

GOLDEN CLUSTER WAX.—Considered the best wax pole bean. It bears profusely long, golden yellow pods in clusters of 3 to 6. Continues in bearing from mid-July until vines are cut by frost. Pods are 7 to 8 inches long, fleshy, absolutely stringless, brittle and delicious. Pkt. 10c; ¼ lb. 15c; lb. 40c, postpaid. Not prepaid, any quantity at 30c per pound.

KING OF THE GARDEN LIMA.—An improvement on the large White Lima. Pods are of enormous size. Pkt. 10c; ¼ lb. 15c; lb. 40c, postpaid. Not prepaid, any quantity at 30c per pound.

YARD LONG.—A great curiosity and an excellent variety. Pods sometimes over three feet long. Splendid in the green state as pods are tender and of fine flavor. Pkt. 15c; ¼ lb. 50c; lb. \$1.75, postpaid.

SCARLET RUNNER.—Valuable for table use or as an ornamental vine. Pkt. 10c; ¼ lb. 15c; lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

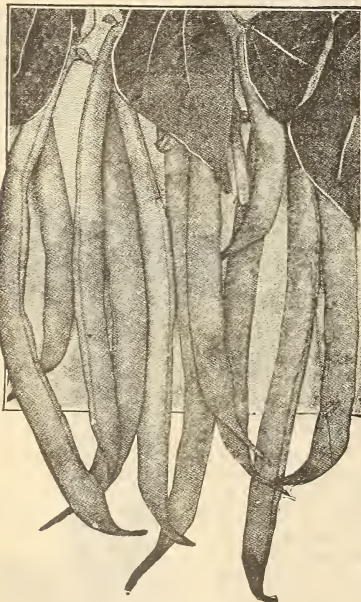


STRINGLESS GREEN POD

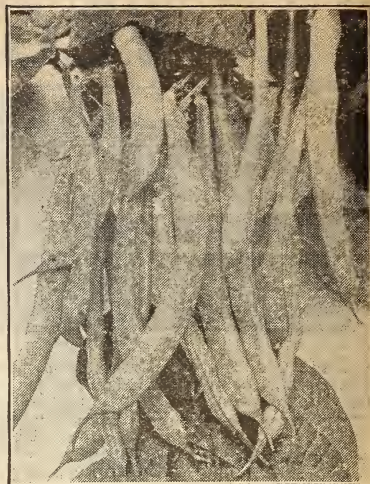
GREEN POD SORTS

STRINGLESS GREEN POD.—A stringless green pod bush bean. Surpasses all others in crisp, tender flavor. Finely shaped, long green pods, absolutely stringless; ready to market two weeks earlier than the Valentines. Of immense value to market gardeners and amateurs who seek an early bean. Pkt. 10c; ¼ lb. 15c; lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

IMPROVED EARLY VALENTINE.—Standard green pod variety. Produces its thick, fleshy pods abundantly. Of splendid quality and uniformity of ripening; nearly the whole crop can be taken at one picking. Pkt. 10c; ¼ lb. 15c; lb. 40c, postpaid. Not prepaid, any quantity at 25 cents per pound.



LAZY WIFE



GOLDEN WAX

NAVY BEANS

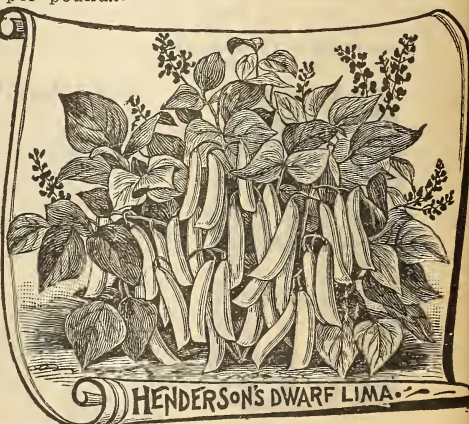
Improved Navy or Boston Pea

This is the improved type of the navy bean which is grown for use as shell beans in winter. Our stock is especially saved for seed purposes, and is superior to any bought in open market. Pkt. 10c, ¼ lb. 15c, lb. 30c, postpaid. Not prepaid, per lb. 20c; 10 lbs. or more at 18c per lb.

BUSH LIMAS

BURPEE'S BUSH LIMA.—A dwarf or bush form of the true large Lima which is of great value. They grow from 18 to 20 inches high, of stout, erect growth, yet branching and vigorous; an immense yielder. Does not always mature this far north, but makes excellent green shelled beans. Pkt. 10c; ¼ lb. 15c; lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

HENDERSON'S BUSH LIMA.—A true bush Lima, and sure to ripen its enormous crop. Beans grow to good size and are excellent either green, shelled or dry. Produces a continuous crop from the middle of July until frost. Enormously productive. Pkt. 10c; ¼ lb. 15c; lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.



IT ONLY TAKES A LITTLE EXTRA WORK FOR POLE BEANS. THEY YIELD MUCH HEAVIER THAN THE DWARF KINDS

TABLE BEETS

(One oz sows 50 ft. of drill; 4 to 6 lbs. for one acre.)
For early, sow as soon as ground can be worked, and from the middle of May for general crop, in drills 15 inches apart and 1½ inches deep. As the plants grow, thin to 6 inches in drills. Young plants make excellent greens. The soil should be rich. Hoe often, taking care not to bruise the roots.

CROSBY'S IMPROVED EGYTIAN.—We believe this to be the earliest variety. Regular in shape, smooth with small tops and small tap root. Popular with our market gardeners. Being a rapid grower it may be sown outside as late as the first of August. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

EARLY CRIMSON GLOBE.—Very early, of spherical form. Skin very smooth and it is as handsome a beet as you can imagine. It is a rich, deep red color, shading to purple. Its flavor cannot be surpassed. When cooked it is of even, dark color throughout, and is attractive on the table. Uniform shape and size. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

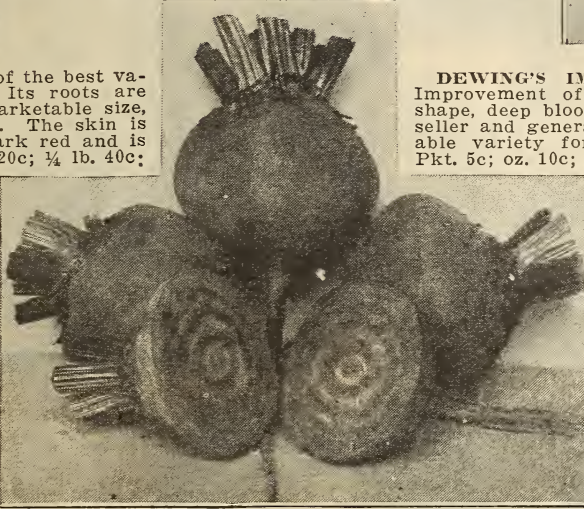


DETROIT DARK RED

DETROIT DARK RED.—One of the best varieties grown for main crop. Its roots are round, very smooth, of good marketable size, and for table use is unexcelled. The skin is deep blood red; flesh is also dark red and is sweet and tender. Pkt. 10c; oz. 20c; ¼ lb. 40c; lb. \$1.25.

MARKET GARDENERS.—Illustrated in color on back cover page. One of the items in our Superlative Specialty Collection. Undoubtedly one of the best ever introduced. It is very symmetrical, with small tap root. Grows to a large size and makes a good beet for the winter. One sowing will produce early beets for the market and main crop for winter use, color deep blood red, fine grained. Pkt. 10c, oz. 20c, ¼ lb. 40c, lb. \$1.25.

SWISS CHARD.—The ordinary form of chard beet with green leaves. Sometimes is known as "Spinach Beet." Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.



CRIMSON GLOBE



DEWING'S BLOOD TURNIP

DEWING'S IMPROVED BLOOD TURNIP.—Improvement of Early Blood Turnip. Globe-shape, deep blood red color, fine flavor, a good seller and generally considered the most desirable variety for main crop and winter use. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.

LONG DARK BLOOD.—A well known sort. Grows a long, tapering root. Will produce much greater crops than the flat shaped sorts. Quality is excellent and it will keep nicely all winter in a cool place. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 80c.

GIANT LUCULLUS CHARD.—Is growing in popularity. Leaves are beautifully curved, and of a soft, clean shade of green. The thick, broad stalks are as large as rhubarb. Prepared the same as asparagus, or leaves and stalks used for "greens." See Six Savory Salad Collection, page 11. Pkt. 10c; oz. 20c; ¼ lb. 40c; lb. \$1.25.

MANGEL AND SUGAR BEETS FOR STOCK

MAMMOTH GOLDEN GIANT.—The largest of yellow flesh mangels. Grows more than half above ground. Remarkable even in shape; of vigorous growth; has a fine neck and very smooth skin; flesh firm and sweet. It is a most excellent keeper. Oz. 10c; ¼ lb. 25c; lb. 60c, not prepaid, 5 lbs. for \$2.50.

CHAMPION YELLOW GLOBE.—The best of the globe shaped mangels. We recommend this type as the best adapted to shallow soils. Per oz. 10c; ¼ lb. 25c; lb. 60c. Not prepaid, 5 lbs. or more at 50c per lb.

GIANT SLUDSTROP.—A variety of exceptionally even growth. Color is reddish yellow, excellent in shape, which resembles Golden Tankard, and is superior to that popular sort in every way. Contains more sugar, grows larger, more above ground and is easy to harvest. It is the best of all mangels for feeding purposes. Per oz. 10c; ¼ lb. 25c; lb. 60c. Not prepaid, 5 lbs. or more at 50c per lb.

DIGNITY LONG RED.—Improvement on the Mammoth Long Red. Unexcelled for yielding and feeding qualities. Grows to a very large size. Very uniform, smooth and of good shape. Should be grown on deep, loose soil. Per oz. 10c; ¼ lb. 25c; lb. 55c. Not prepaid, 5 lbs. at 45c per lb.

GIANT HALF SUGAR MANGEL.—A hybrid or cross between the Mammoth Long Red and Sugar Beet, and for our own feeding we have found it superior to either. Being sweeter, both cattle and hogs relish them greatly. As heavy a yielder as the mangels and equally as smooth. Per oz. 10c; ¼ lb. 25c; lb. 60c. Not prepaid, 5 lbs. or more at 50c per lb.

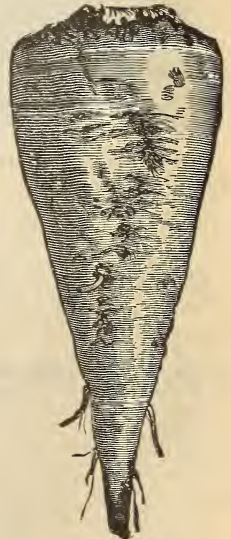
GOLDEN TANKARD.—Cows and sheep thrive on it. Other mangels cut white, circled with yellow, but this is of a rich, deep yellow throughout. Early, hardy, a heavy cropper, and on account of shape the roots can grow close in rows. Oz. 10c; ¼ lb. 25c; lb. 70c. Not prepaid, 5 lbs. or more at 55c per lb.

KLEIN-WANZLEBEN SUGAR BEET.—Cultivated for beet sugar factories; yields 15 to 20 per cent of sugar. Roots straight, tapering evenly and somewhat screw shape. Our seed is from beets which were tested as to per cent of sugar before setting out. The sugar makes it of great value for feeding. Per oz. 10c, ¼ lb. 25c; lb. 80c. Not prepaid, 5 lbs. or more at 70c per lb.

LANE'S IMPERIAL SUGAR BEET.—Largest sugar beet and the one usually grown for stock feeding. Yields heavy tonnage of beets with high percentage of sugar. Per oz. 10c; ¼ lb. 25c; lb. 80c. Not prepaid, 5 lbs. or more at 70c per lb.



GIANT SLUDSTROP MANGEL



KLEIN WANZLEBEN

GROW MANGELS, CARROTS, RUTA BAGAS AND OTHER ROOTS FOR YOUR LIVE STOCK. THEY MAKE EXCELLENT FEED.

CABBAGE

(One ounce will produce about 3,000 plants. Set 8,000 to 10,000 plants per acre, of early sorts, and 6,000 of large, late kinds.)

No vegetable is of greater importance than cabbage, and compared with the cost of seed, there is more money in growing cabbage than other crops. It does not pay, therefore, to take any risk in buying seed. We have had our cabbage seed grown by the same growers for about twenty years past, and it has proven of uniformly excellent quality, so that we pride ourselves on having the purest and highest grade of cabbage seed that is offered, or at least it is surpassed by none. The cabbage requires a deep, rich soil and thorough working to insure good, solid, full-sized heads. Sow early sorts in hotbeds about six weeks before time to set out the plants in the field or garden. Transplant to rows three feet apart. Our packets contain about 800 seeds. Gardite, Slug Shot and tobacco dust will kill insects and worms.



EXTRA EARLY EXPRESS

EARLY VARIETIES

EXTRA EARLY EXPRESS.—The earliest variety in existence and produces heads long before the Jersey Wakefield or other varieties have begun to head up. Heads solid, have few outside leaves, and can therefore be planted very close and yield a large crop. It is a most important variety for gardeners. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

BURPEE'S ALL-HEAD EARLY.—This is the earliest of the flat-headed cabbages, of larger size than early varieties generally, of perfect shape and it makes exceptionally solid heads. It was originated by the late C. L. Allen, of Long Island, N. Y. Our seed is grown from the original stock so that we have as good stock as can be purchased. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.



EARLY JERSEY WAKEFIELD.—Considered by many gardeners the very best first early variety. Of large size for so early a kind and is certainly deserving of its great popularity. Heads hard and solid, and have few outside leaves. Our seed is highest quality, American grown. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

NEW WASHINGTON WAKEFIELD.—A grand variety, a trifle later than Jersey Wakefield; produces much larger heads, of perfect pyramidal shape, very solid, with few outside leaves. It grows remarkably uniform, heads are of even size and shape. Unequaled for market or family garden. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.



ALL HEAD EARLY



HENDERSON'S SUCCESSION

COPENHAGEN MARKET.—A splendid new early flat head cabbage. Matures as early as Jersey Wakefield, has few leaves and is remarkably hard and solid. Grows compact, takes but little room and matures with a short stem. We tested it and proved it on our own farms before offering it. The seed we offer was grown in Denmark, where this variety originated. Both type and quality are thoroughly fixed. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.15, lb. \$3.50.

HENDERSON'S SUCCESSION.—An excellent variety of large size and with flat head maturing in midsummer. It can be brought to perfection in the hottest weather or used as an autumn or winter crop. Heads 10 or 12 inches in diameter, frequently larger, average about 13 lbs. Pkt. 15c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

FROST PROOF CABBAGE PLANTS

Grown from fall planted seed, on the coast of South Carolina. Produced in open fields, in winter so that they grow slowly and become hardened to cold and slight frost. Can be set out in spring much earlier than hot bed or greenhouse plants and you can really have cabbage two weeks ahead of ordinary plants by the use of the frost proof stocks. These will be mailed direct from the growers to you. Will reach you at proper time for planting and cost is very low.

Early Jersey Wakefield, per 100, 50 cents; 500 for \$2.00, postpaid.

Washington Wakefield, per 100, 50 cents; 500 for \$2.00, postpaid.

Henderson's Succession, per 100, 50 cents; 500 for \$2.00, postpaid.



COPENHAGEN MARKET

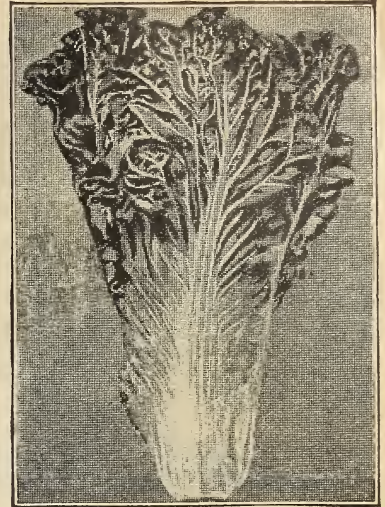
YOU ARE CERTAIN TO HAVE GOOD CROPS OF FINE CABBAGE IF YOU PLANT OUR SEED. WE SELL NONE BUT THE BEST.

CABBAGE

CHINESE CABBAGE

PE TSAL.—Produces a long top or head 12 to 15 inches long, which blanches to a beautiful clear white. Sow in hot beds for early or treat as late cabbage for winter use. This was originally imported from China. It resembles in growth Romaine or Cos Lettuce. The leaves are large, have broad ribs and are exceedingly tender. The immense heads frequently weigh as much as six pounds. Pkt. 10c, oz. 50c, ¼ lb. \$1.60.

Note the Six Savory Salad Collection on page 11



CHINESE CABBAGE



PREMIUM FLAT DUTCH

PREMIUM FLAT DUTCH.—This old and well known variety is still the standard winter kind. Heads are large, solid and it is a first-class keeper. Our strain of this cabbage is given extra care in selection to maintain its even type and sure heading quality. Pkt. 5c, oz. 25c, ¼ lb. 75c, lb. \$2.50.

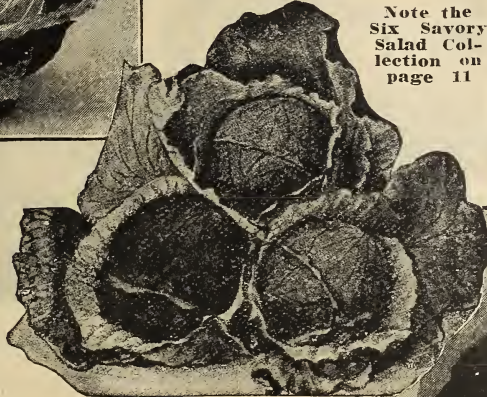
IMPROVED DANISH BALL-HEAD, or Hollander.—This variety has been selected and perfected for more than fifty years by the Danish gardeners. They grow it almost exclusively for winter cabbage. Heads round, good sized, solid and very fine grained. Has but few outer leaves. A good keeper, tender and crisp. We import our seed from Denmark. Pkt. 10c, oz. 20c, ¼ lb. 90c, lb. \$3.00.

SUREHEAD.—This popular cabbage is rightly named Surehead and never fails to make a remarkable fine, solid, large head with few outer leaves. Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. \$2.50.

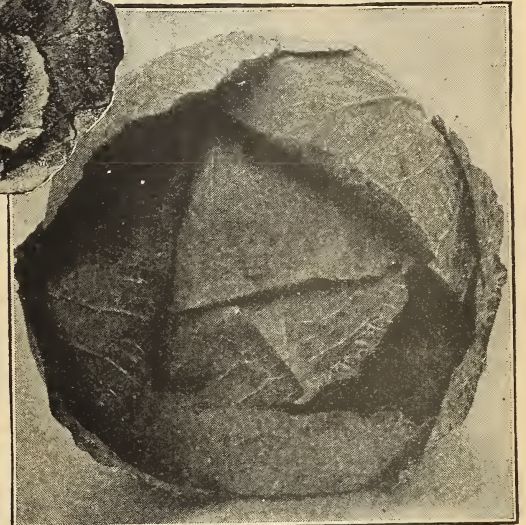
ALL SEASONS.—(Vandergaw.)—A medium early variety, but quite hardy and may be planted in mid-summer for late cabbage, hence its name. Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. \$2.50.

IOWA SEED CO.'S SHORT-STEM DRUMHEAD.—Our improved and selected strain which has greatly pleased thousands of our customers in the past. For sureness in heading, regularity of growth and even, large, solid heads, it far surpasses any other strain of late cabbage, ripening evenly, with very short stem or stalk, and large, thick heads silky fine quality. Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. \$3.00.

PERFECTION DRUMHEAD SAVOY.—Has curled and crumpled leaves and is of finer flavor than ordinary cabbage. Planted and grown as late or autumn cabbage. Our strain is sure header and is the best variety of this type. Heads are large and solid and will make a good crop. For salads and kraut the Savoy will give a richer flavor than common kinds. Pkt. 10c, oz. 35c, ¼ lb. \$1.00, lb. \$3.00.



DANISH BALL HEAD



SHORT STEM DRUMHEAD

MAMMOTH RED ROCK.—Is the largest of the red cabbages, solid, heavy, and a good keeper. Color is rich, dark red so desirable for pickling uses. Heads are solid and weigh 10 to 12 lbs. Pkt. 10c, oz. 35c, ¼ lb. \$1.00, lb. \$3.00.

CAULIFLOWER

(One ounce will produce about 3,000 plants.) One of the most delicious of vegetables. Requires similar treatment to cabbage. Does not head well during the hottest weather in summer. Sow the seed early for an early crop and again in June or July for late heads. Our Cauliflower seed is grown in Denmark and is the best produced anywhere.

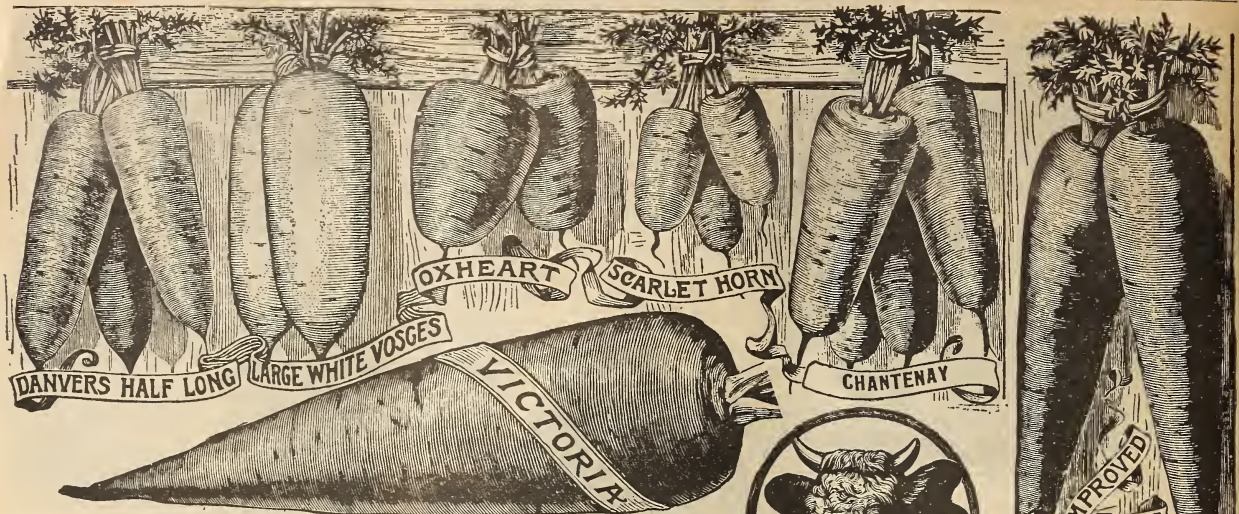
HENDERSON'S EARLY SNOWBALL.—Considered the earliest and more certain to make a head than any other sort. Its dwarf habit and short outer leaves allow it to be planted as close as 18 to 20 inches apart each way, thus making it especially valuable to market gardeners. Our stock is extra choice, and cannot be excelled. We believe it to be the best in the world. Pkt. 20c, ¼ oz. 75c, oz. \$2.50.

DANISH GIANT, or Dry Weather Cauliflower.—A strong competitor for first place. Heads extra large, pure white and very solid. Has large leaves which protect the head. About 10 days later than Snowball, but has proven more desirable for growing in open ground and does well in dry seasons when other sorts fail. Pkt. 20c, ¼ oz. 75c, oz. \$2.50.

EXTRA EARLY DWARF ERFURT.—Is valuable for forcing. A very popular variety. First quality. Pkt. 20c, ¼ oz. 75c, oz. \$2.50.



HENDERSON'S SNOWFALL CAULIFLOWER.



One ounce for 100 feet
of drill.

CARROTS

Three or four pounds
for one acre.

A nutritious succulent food in the winter for cattle, horses, sheep and pigs. For early, sow in the spring as soon as ground can be worked, in drills fourteen inches apart, covering one-half inch; thin plants to three or four inches apart in row. For field culture rows should be of sufficient distance to admit use of a horse cultivator; sow seed from middle of April to first of June. A light, sandy loam, deeply tilled, is best.

EARLY SCARLET HORN.—Favorite extra early variety. Orange-scarlet, fine grained, and agreeable flavor. Top small, short, stump-shaped root; grows well in any soil. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.25.

OXHEART, or Guerande.—Most valuable variety in existence. Intermediate between Half-Long and Horn sorts; diameter 3 to 4 inches; beautiful shape; rich orange color. Easily pulled, early as any, best quality all season. Cut tops with scythe; pull with potato hooks. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.00.

DANVERS.—Is in form about midway between the Long Orange and Shorthorn class, growing generally with a stump root. Rich, dark orange color, large size, smooth and flesh of very close texture with little core. A first-class carrot for all soils. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.00.

CHANTENAY.—Most desirable early variety for bunching and, although a trifle later than the first earlies, will yield so much handsomer roots and larger crop that everyone is

pleased with it. Splendid variety for market or feeding purposes. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.25.

IMPROVED LONG ORANGE.—Desirable for garden or field. Grows to large size, averaging 12 inches in length and 3 inches in diameter at the top. This is the standard long variety, preferred to Victoria by some because of its deeper orange color. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.00.

VICTORIA.—Largest carrot grown, heaviest cropping, roots remarkably fine, light orange, symmetrical, excellent quality, of high feeding properties; good keeper; grows half as much weight again per acre as other sorts; grows well out of ground; easily harvested. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 80c.

LARGE WHITE VOSGES, or Improved Short White.—A stock variety which is enormously productive and easy to harvest. Flesh white, solid and heavy yielding. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 45c, lb. 80c.



WINTER QUEEN

CELERY

One ounce will produce
about 6,000 plants.

For first crop sow early in hotbeds, or in boxes in the house, in rich, moist soil, covering seed very lightly. For main crop sow in open ground in April. If the weather is hot and dry protect with light covering of hay or straw. Stir soil when plants are well up; thin out and transplant. For main crop set out between June 15th and July 15th, in rows 3 feet apart and 6 inches apart in the row. Firm the earth well when setting and they will root better. Keep clear of weeds.

WHITE PLUME.—Stalks, portions of the inner leaves and heart naturally white, and become fit for use by simply tying up closely with twine. Pkt. 10c; oz. 30c; $\frac{1}{4}$ lb. \$1.00; lb. \$3.00.

GOLDEN SELF-BLANCHING.—By far the most popular sort; of medium earliness and dwarf, compact habit, with thick, solid, heavily ribbed stalks which blanch easily to a clear, waxen yellow. Grown in rich, moist soil, the stalks are numerous and large, with a solid heart of beautiful yellow. French Grown Seed, pkt. 15c, oz. \$1.00, $\frac{1}{4}$ lb. \$3.00, lb. \$10.00. American Grown Seed, pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$1.50, lb. \$5.00.

GIANT PASCAL.—A late variety of superior keeping qualities. Very large, solid and crisp; a rich, nutty flavor. Blanches easily. The heart is golden yellow and very attractive. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

WINTER QUEEN.—Finest dwarf celery and a popular sort. Stalks are large and heavy, of even growth and good length. Quality is excellent and it blanches readily with little trouble. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

NEW ROSE.—A self-blanching type with rose or pink ribbed stalks. Very attractive and of excellent quality. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

GIANT PRAGUE CELERIAC.—Instead of producing long leaf stalks like ordinary celery it has a turnip-like root with true celery flavor. Used in soups, stews and for all culinary purposes in place of celery. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

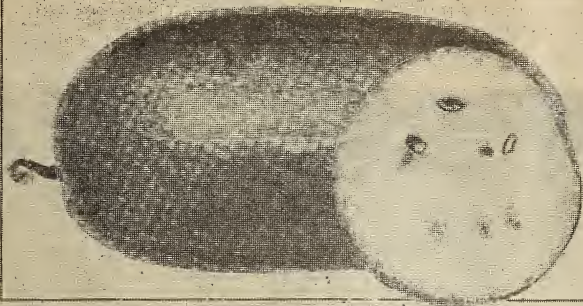


GIANT PRAGUE CELERIAC

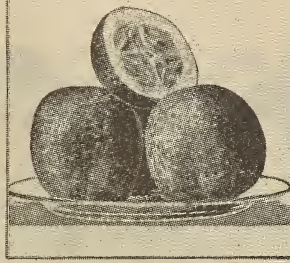
THERE IS NOT ENOUGH ATTENTION PAID TO ROOT CROPS BY LIVE STOCK RAISERS. OF GREAT VALUE IN FEEDING.



PIMENTO PEPPER



APPLE PIE MELON



LEMON CUCUMBER

CANNING CLUB COLLECTION

EIGHT CHOICE GARDEN FRUITS FOR PICKLING, PRESERVING AND CANNING

One Packet of each, sufficient for the ordinary garden, postpaid, only 50c.

Ground Cherry **IMPROVED YELLOW.**—A delicious garden fruit fully described and illustrated on page 10 of this catalogue, where it is offered. Pkt. 10c, $\frac{1}{2}$ oz. 25c, oz. 40c.

Garden Huckleberry We recommend it to our customers. Fully described among the items on page 10. Pkt. 10c.

Apple Pie Melon A large citron melon of superior quality. See page 13 for description. Illustrated above. Pkt. 10c.

Vine Peach Introduced by us. Grow on a vine similar to the musk melon, and require the same cultivation. Fully described on page 9. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c.

American Mammoth Dill Popular annual herb used in pickling. Easily grown. Cut tops when ripened and dry. Keeps indefinitely. Pkt. 10c.

Lemon Cucumber A true cucumber. Vines are prolific and fruits are splendid for sweet or sour pickles. Unsurpassed for slicing. Pkt. 10c; oz. 25c.

Golden Nugget Tomato Best of the preserving tomatoes. Round in shape, bright yellow in color, and about the size of a hulled black walnut. Are large enough for table use, but are preferred for pies or preserves. Wonderfully prolific. Pkt. 10c; oz. 75c.

Pimento Pepper Medium to large size, and suitable for making green pepper pickles, and to chop up for mixed pickles of any kind requiring peppers. The mildest of all. Splendid as a container for salads, since it is readily eaten in its natural state, either green or ripe. Per packet 10c.

CHERVIL

(An oz. will sow 100 feet of drill.) Leaves used in soups and salads. Have a pleasant aromatic taste greatly liked. Cultivate like parsley. Pkt. 10c, oz. 25c.

CHICORY

LARGE ROOTED.—Used as a substitute for coffee. Cultivated the same as carrots. Take up roots in the fall, cut in small pieces and let dry. When wanted for use it is roasted and ground like coffee. Pkt. 10c, oz. 25c.



CHUFAS

CHUFAS

A nice little ground nut greatly liked by children. Its flavor resembles the cocoanut. Very prolific, a single one yielding 200 to 400 nuts growing just under the ground and easily reached by pigs and poultry if they have access. Grow best in light, sandy soil, well fertilized. Plant in April, 10 inches apart, in $2\frac{1}{2}$ -foot rows. Cover lightly. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 25c, lb. 75c.

CORN SALAD

Nice winter salad. Sow in September in drills. Cover in fall with straw or leaves. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

CRESS

EARLY CURLED.—A well known salad. Sow at intervals all season. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c.

TRUE WATER.—Sow seeds along the running water. Pkt. 10c, oz. \$1.00.

UPLAND CRESS.—A perennial sort; hardy; produces well; same flavor as Water Cress. Grown on high, dry land; does not seed soon. Pkt. 10c, oz. \$1.00.

COLLARDS

(One oz. for about 3,000 plants.) Collards are very largely used as "greens" in some parts of the country, especially in the South. They are a form of loose-headed cabbage.

GEORGIA.—The most satisfactory variety for general use. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c.

COLLECTION OF ODD VEGETABLES

BRUSSELS SPROUTS.—See page 1. Pkt. 10c.
CHUFAS, or Earth Almonds.—See left hand column, this page.) Pkt. 10c.

CHINESE CABBAGE.—See page 5. Pkt. 10c.



COTTON

COTTON.—Start seed early and transplant. Has large, showy flowers, followed by boll of white cotton. Pkt. 5c, oz. 10c.

CURRENT TOMATO.—(See description on page 31. Pkt. 10c.

ENDIVE.—Called also Winter Lettuce. Excellent for late use. Pkt. 10c.

FRENCH SORREL.—Grown for and are used as

"greens." Pkt. 10c.
GARDEN HUCKLEBERRY.—(See description and illustration on page 10. Pkt. 10c.

GOURDS, Ornamental Mixed.—Pkt. 5c.

GROUND CHERRY.—(See description on page 10.) Pkt. 10c.

KOHL RABI.—(See page 10.) Per pkt. 10c.
MARTYNIA.—Also called "Devil's Claw," and "Unicorn Plant." Ornamental plant, bearing beautiful flowers which are succeeded by large seed pods which when young are fine for pickling. Pkt. 10c, oz. 30c.

OKRA, or Gumbo Plant.—(Description on page 16.) Per pkt. 10c.

PRIMITIVE CORN.—A unique novelty. See page 30 for description. Pkt. 10c.

POMEGRANATE.—Ornamental little fruit, commonly grown in gardens a century ago, but now rarely seen. It grows on a pretty vine; fruit is round, yellow and irregularly striped with orange, red or mahogany; fragrant; a specimen will perfume a room many days. Pkt. 10c, oz. 25c.

SWISS CHARD.—(For description see page 3.) For beet greens. Pkt. 10c.

VINE PEACH.—(For description see page 9.) Pkt. 10c, oz. 30c.

Seventeen packets above, postpaid, \$1.25.



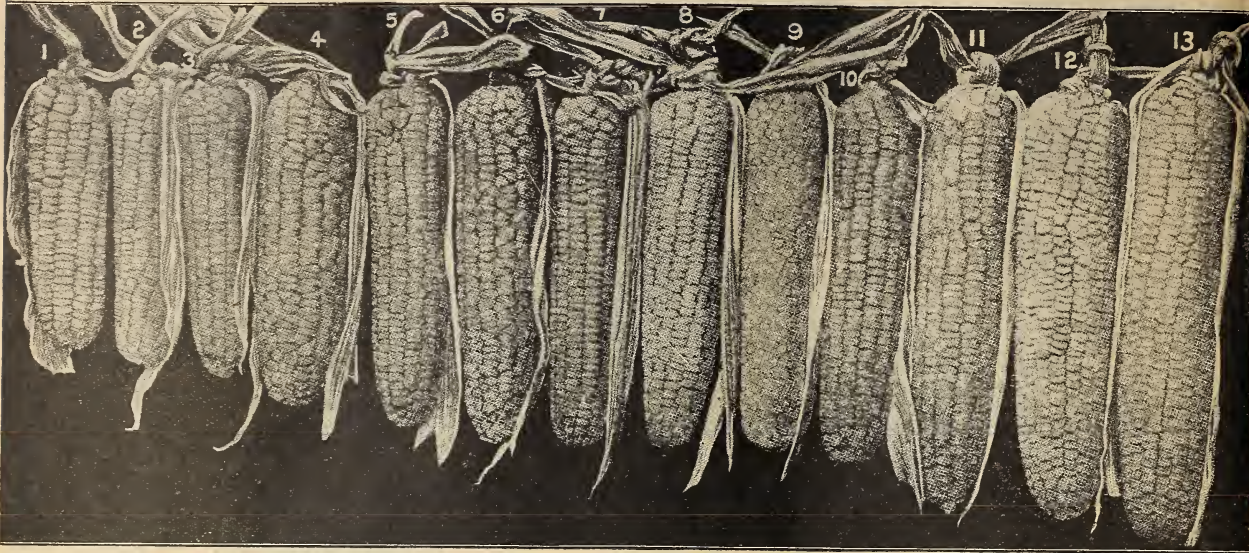
UPLAND CRESS

One pound will plant five hundred hills of four grains. Packets contain about 2 ozs.

SWEET CORN

Seven pounds for an acre planted in hills. Fifteen pounds per acre in drills.

Plant as soon as the ground becomes warm in the spring, in hills about three feet apart; give thorough cultivation. Our sweet corn is carefully grown and selected, only the choicest, most perfect ears being selected for seed. It is far superior to ordinary stock. We pay postage by the packet or pound. Quantities of three pounds or more go by express or freight at customer's cost for transportation or will be sent by parcel post if you send postage. See page 1.



IMPROVED GOLDEN BANTAM.—(See cut No. 1.)—This handsome new variety is one of the most delicious of all and it is generally believed to be the richest in flavor. Is extremely early, of hardy, vigorous growth, so that it can be planted quite early. The stalks grow only about four feet high but they bear two or three good ears six to eight inches long, of handsome yellow color. In flavor it is quite distinct from the white sorts and some have called it as sweet as honey. Give it a trial. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 35c, postpaid. Not prepaid any quantity at 25 cents per pound.

EARLY SUNRISE.—(No. 5.)—Is a splendid new variety which we originated. It is undoubtedly the best extra early corn for either private gardens or market. The ears are larger than Golden Bantam and a few days earlier. This would be enough to make it very desirable, but it is also the sweetest of all early kinds, not having the peculiar flavor of Golden Bantam which is objectionable to some people. Gardeners when selling it on the market call it the White Bantam. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 30c, postpaid. Not prepaid, any quantity at 20 cents per pound.

EARLY MINNESOTA.—(No. 7.)—A standard variety. Has held its position in the list for a long period of years as a dependable sort. Ears of good size and well flavored. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 30c, postpaid. Not prepaid, any quantity at 20 cents per pound.

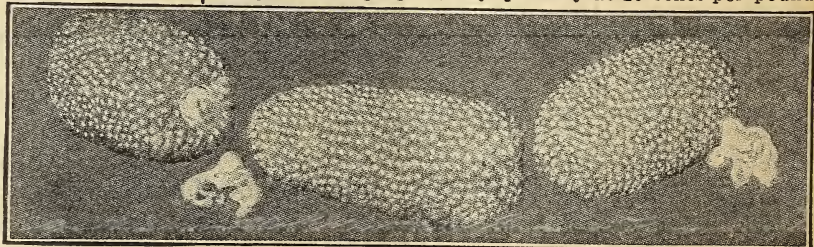
CHAMPION EARLY.—(No. 6.)—Earliest large corn ever introduced, maturing only a few days later than the small eared sorts and producing large 12-rowed ears 8 to 10 inches long. Pure white kernels with white cob, very sweet and tender, usually producing two ears to the stalk. Unsurpassed for market gardening or family garden owing to its large size and fine appearance. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 30c, postpaid. Not prepaid, any quantity at 20 cents per pound.

PHAROAH'S DREAM.—(No. 11.)—The most productive variety of sweet corn ever produced. Has two to four large, well filled ears on the main stalk, and the suckers also produce large ears so that plants with seven ears from one seed are easily found, which suggested the name, Pharaoh's Dream. Ears are as long as Stowell's Evergreen, but not quite as large around. In quality it has no superior. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 30c, postpaid. Not prepaid, any quantity at 25 cents per pound.

EVERGREEN SWEET FODDER.—Preferred for the production of feed for live stock. See page 30. By express, not prepaid, 3 lbs. 50c, 10 lbs. \$1.25. Per bu. (50 lbs.) \$5.00; 2 bu. or more at \$4.85 bu.

IMPROVED STOWELL'S EVERGREEN.—(No. 12.)—The most prominent main crop sort and more largely planted than any other, being a general favorite with canners and market gardeners for late use. The ears are large size. The grains are deep, exceptionally tender and remain a long time in an edible condition. The dried kernels are shriveled so much that they readily show its unusual sweetness. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 30c, postpaid. Not prepaid, any quantity at 20 cents per pound.

COUNTRY GENTLEMAN.—(No. 9.)—An improvement on the old favorite Shoe Peg Sweet Corn. Our illustration of a single ear shows its habit of growth; produces 3 to 5 ears to a stalk. In this, coupled with the luscious quality, the general superiority of this new variety will be quickly seen. The cob is small, giving great depth to the kernels, which are pearly white and we cannot say too often—surpassingly sweet and tender. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 35c, postpaid. Not prepaid, any quantity at 25 cents per pound.



AUSTRALIAN HULLESS

POP CORN FOR SEED

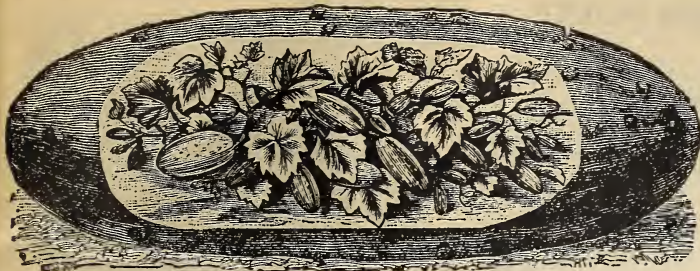
It pays to raise pop corn as a general crop. The demand usually exceeds the supply. Some farmers claim it is as easily grown as field corn and they receive 3 or 4 times the amount per acre for the crop. Let the children try a patch.

AUSTRALIAN HULLESS.—Dwarf-growing and heavy yielder of attractive ears, peculiar in form, being nearly as thick as long. Kernels are similar to White Rice, only longer and slimmer and pearly white in color. Its crowning merit lies in its popping quality, fine flavor and absence of hull or shell when popped. Grown extensively for market and commands the highest price and most ready sale. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 35c, postpaid. Not prepaid, any quantity at 25 cents per pound.

MONARCH WHITE RICE.—This is our own strain of large rice pop corn and has been bred up to wonderful productiveness. Bears three to six ears per stalk and yields 1,800 to 2,500 lbs. per acre. Grain is large and pops to great size. Pkt. 5c, $\frac{1}{4}$ lb. 15c, lb. 35c, 3 lbs. \$1.00. Not prepaid, any quantity at 25 cents per pound.

MINIATURE.—The smallest pop corn grown. Splendid quality; pops very tender. Listed by some dealers as hulless, but it differs as its shape is more like Monarch White Rice. Pkt. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

WE OFFER OUR CUSTOMERS THE CHOICEST STOCKS OF SWEET CORN AT VERY LOW PRICES, QUALITY CONSIDERED.



EARLY EXPRESS

EARLY EXPRESS.—It is truly a desirable cucumber. In size it equals the later types, while it is by all odds the earliest variety in existence. The quality is of the best. It is free from any rank, strong flavor at any time. Equally good for pickling or slicing and we recommend it. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

IMPROVED CHICAGO PICKLE.—Medium in size, dark green in color when young. A variety originated by a pickle grower near Chicago; is considered the best variety there; very prolific; matures early, produces immense number of fine shaped pickles. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

EARLY CLUSTER.—Slim form. Extra prolific, frequently setting in clusters of two and three. Fine for small pickles. If fruit is kept gathered, the vines will continue in bearing. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25.

WHITE WONDER.—A large, long fruited variety of beautiful ivory white color, which it retains during the whole period of growth. Strong and vigorous growth and very prolific. Quality is really superior, being crisp and tender, and entirely free from any bitter taste. It can be used for slicing without peeling. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$1.60.

LEMON.—It is round and about the size of a baseball. The fruits are produced in great profusion. Used as any ordinary variety of cucumber, but have a flavor peculiarly their own superior to any, being crisp and tender, and having none of the bitter taste found in some varieties. Of best quality. Desirable for use as mangoes. Pkt. 10c, oz. 25c.

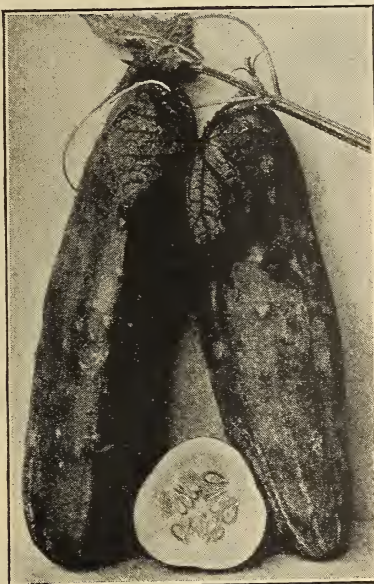
IMPROVED LONG GREEN.—A standard sort. Vine vigorous and productive, forming fruit for the table nearly as early as shorter sorts. Produces very fine, firm fruit about 12 inches long. See illustration. Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 50c; lb. \$1.50.

DAVIS PERFECT.—Everyone who sees the crop says they never saw anything to equal it. Dark, glossy, green, slim and symmetrical, with an average length of 10 to 12 inches. When ripe they turn white without yellow. Quality fine, as seeds are very soft when fit for table use. Very tender, brittle and of exceptional flavor. Early as earliest strain of White Spine and outyielding all others. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.50.

WEST INDIA GHERKIN, or Burr.—This is a peculiar shaped, very small variety of cucumber which makes a handsome pickle of first-class quality. When ready it is about as large as an English walnut, partly covered with spines, from which it takes the name "Burr" cucumber. Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 65c.



DAVIS PERFECT



IMPROVED LONG GREEN

VINE PEACH

A splendid novelty introduced by us. The vine on which they are borne is somewhat similar to the musk melon vine, and requires the same cultivation. The fruit is about the size of a large peach, oval shaped, and is of a bright orange yellow color, somewhat russety. For sweet pickles, pies or preserving they are superb. A jar of these cut in halves and cooked in syrup presents a beautiful and tempting appearance. Recipes for preparing for the table will be sent with each order. Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 60c.

CUCUMBER

(One ounce plants 50 hills, two pounds one acre.)

Cucumbers succeed best in a rich soil. For first early, sow in hotbeds, in berry boxes or in small flower pots, six weeks before they can be set out in open ground. When danger of frost is over transplant in hills four feet apart each way. For general crop plant in open ground in May, about twelve seeds in a hill. When danger of bugs is past thin to four strong plants in a hill. For pickling, plant in July. Sprinkle vines with plaster or air-slaked lime, or use Gardite or Slug Shot, to protect them from bugs.

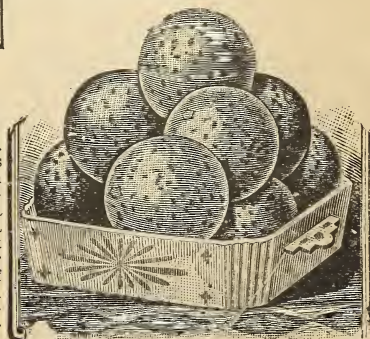


PERFECT WHITE SPINE

PERFECT WHITE SPINE.—This improved strain is pronounced by good judges superior to all others. Fruit even, good size, straight, well formed and symmetrical. It is of uniform shape, making it unexcelled for pickling. Immensely productive and keeps a long time. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 45c; lb. \$1.50.

JAPANESE CLIMBING.—The vines are of healthy, vigorous growth, with rich, dark green foliage, and throw out strong, grasping tendrils, enabling it to climb trellis, wire netting, brush or any other suitable support. It is of large size, cylindrical, flesh pure white, skin dark green, turning to brown and netted when ripe. Fine for slicing. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.50.

NOTE OUR CANNING CLUB COLLECTION OF THE EIGHT CHOICE GARDEN FRUITS FOR PICKLING OR PRESERVING ON PAGE SEVEN.



VINE PEACH

EGG PLANT

A tender plant that should be started quite early in a hotbed or box in the house, which must be kept warm. Transplant late to open ground, two feet apart.

IMPROVED NEW YORK.—Our strain of this leading market variety we believe to be unsurpassed. Very large size, skin deep purple, flesh white, of excellent quality. Very productive. Pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$2.00.

BLACK BEAUTY.—The earliest variety in existence, being much earlier than the above. Pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$2.00.

ENDIVE

(One ounce will sow about 60 sq. ft.)

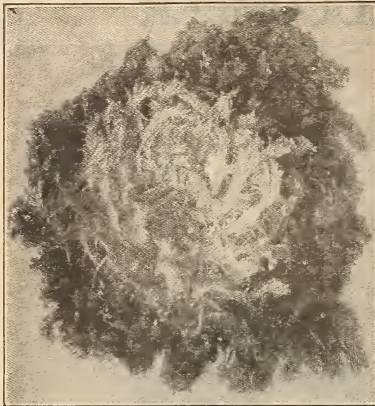
Preferred to lettuce by many. Should be more largely used. One of the best and most wholesome salads for fall and winter. Sow in April for early; in June or July for winter. When 8 inches long tie together with a string near the top to blanch.

BATAVIAN.—Has smooth leaves and makes a handsome plant. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c; lb. \$1.50.

GIANT FRINGED.—Also called winter lettuce. Best of all. Strong, vigorous grower, making large white heart; leaves are beautifully curled, and of best quality. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

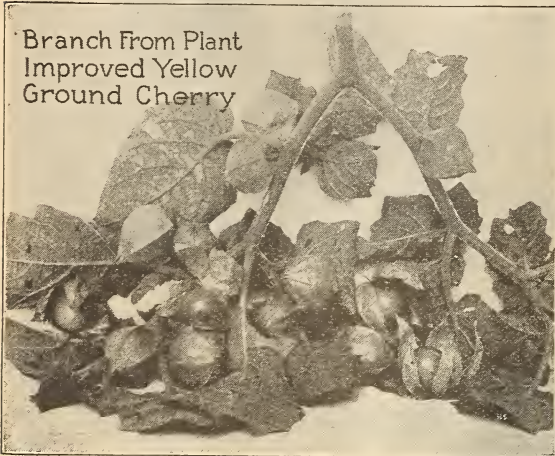


NEW YORK EGG PLANT



BATAVIAN ENDIVE

Branch From Plant
Improved Yellow
Ground Cherry



GROUND CHERRY

IMPROVED YELLOW.—Each year adds to the popularity of this little fruit which we introduced. They grow well on almost any dry soil, are easier raised than the tomato, are prolific bearers and oh! what luscious fruit. For sauce or pies they are excellent. They make delicious preserves and when dried in sugar are much better than raisins for cakes and puddings. Will keep in the husk in a cool place nearly all winter. See Canning Club Collection, page 7. Pkt. 10c; $\frac{1}{2}$ oz. 25c; oz. 40c.

GARDEN HUCKLEBERRY

When this was first offered to us we had little confidence in it, but after growing it we recommend it to our customers. Grows about three feet high and just loaded with clusters of berries, which are jet black when ripe. Make delicious pies, preserves and jams. Directions for cooking with each packet. Not edible raw. See Canning Club Collection, page 7. Pkt. 10c.



GARDEN HUCKLEBERRY

GOURDS

Cultivate like cucumbers; they may be trained over lattice work, fences, etc.

JAPANESE NEST EGG.—Grows almost uniformly to the size, color and shape of a hen's egg. The shells are hard and make the very best nest eggs. Pkt. 5c; oz. 20c.

DIPPER.—Makes a light, convenient dipper. Dippers of various sizes of a capacity from a pint to a quart and a half, can be had from a few vines. Pkt. 5c; oz. 25c.

SUGAR TROUGH.—Very large and strong grower. For buckets, etc. Pkt. 5c; oz. 25c.

LUFFA, or Dishcloth.—Has a peculiar lining, which is sponge-like, porous, tough, elastic and durable, making a natural dishcloth or sponge. Start early. Pkt. 5c; oz. 25c.

HERCULES' CLUB.—Grows to immense size—4 to 5 feet in length. Pkt. 5c; oz. 25c.

MIXED UTILITY.—Seeds of the above mixed. This is a very popular item with our customers. Really useful in many ways. Easily grown. Pkt. 5c; oz. 20c.



EXTRA CURLED MOSSBACK KALE

KALE

EXTRA CURLED MOSSBACK.—A most attractive variety; fine crimped leaves, light green; fine for garnishing. Best cooking. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

DWARF GERMAN GREEN, or Siberian.—A very popular variety. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

LEEK

Sow seed thinly in drills early in spring; thin out to stand six inches apart in the row.

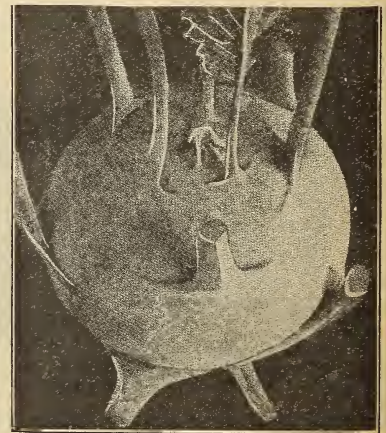
LARGE ROUEN.—Largest and most uniform sort. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

KOHL RABI

Try Kohl Rabi this year. It is a most excellent vegetable, intermediate between the cabbage and turnip. Cultivate like cabbage.

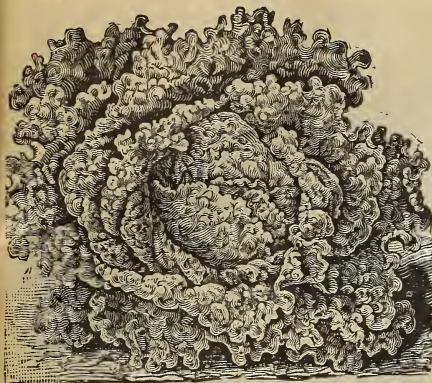
GOLIATH PURPLE.—A new sort of immense size, solid and sweet. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 85c; lb. \$2.50.

EARLY WHITE VIENNA.—The flesh is white and tender and it is a good market sort. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 85c; lb. \$2.50.



WHITE VIENNA KOHL RABI

LETTUCE



BLACK SEEDED SIMPSON



ICEBERG LETTUCE



MAY KING LETTUCE.

(One ounce will sow 100 feet of drill.)

LETTUCE may be sown very thinly any time from early spring until the middle of August. The soil should be very rich. Lettuce may be transplanted like cabbage. Set the plants a foot apart in rows two feet wide. Cultivate often and you will be pleased with results.

EARLY CURLED SIMPSON.—A great variety for the backyard garden where only a small plot is available. Not called a heading sort, but produces pale green, somewhat crumpled leaves and is usable in all stages. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.40.

BLACK SEEDED SIMPSON.—This is the standard variety with market growers who grow lettuce under glass or in frames. Makes large loose heads of light colored, brittle leaves. Can be sown outside for first early use but will not stand hot summer weather. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.40.

NEW YORK.—A new sort producing immense heads, often 15 and 16 inches across, and weighing enormously. The interior is beautifully blanched, creamy-white, crisp, tender and delicious, being absolutely free from any trace of bitterness. Very slow to run to seed and a sure header under most trying conditions. As a standard main summer crop, hot weather lettuce, it is in every way desirable and has no equal. Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. \$3.00.

ICEBERG.—Has large, curly light green leaves, sometimes slightly tinged with red. Has a rich well bleached center; stands the summer sun without blighting. Belongs to head lettuce type, but is fit for cutting any time and by thinning out a succession is available. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.40.

IMMENSITY.—An extra large, crisp head variety. Give room to grow. Make rows 18 inches and thin plants to 8 inches in the rows. Cultivate and you will be delighted with the great loose heads of such splendid quality. Stands heat. Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. \$1.40.

PRIZE HEAD.—Leading brown leaved lettuce. Tender leaves, light reddish brown. Heads large and rather loose, with very good flavor. We sell more of this than any other brown leaved variety. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

CALIFORNIA CREAM BUTTER.—A cabbage lettuce, with round, solid head, outside medium green, slightly marked with small brown spots; within, leaves are very rich cream yellow color, rich and buttery to the taste. Heads good size, compact, very hard and solid. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.50.



NEW YORK LETTUCE

CALIFORNIA
CREAM
BUTTER

MAY KING.—A very early variety of head lettuce of compact growth. The inner leaves are a bright yellow, the outer ones a light green, sometimes slightly tinged with brown. It is extremely tender and brittle. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.40.

IMPROVED HANSON.—As a head lettuce the Hanson has no superior, either for home use or for market. Makes the most solid large heads and is the surest to head of all lettuces. Stands heat well when grown out doors and does well in hotbed or greenhouse. Can be used as a leaf lettuce but is a splendid header. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

GRAND RAPIDS.—A splendid loose leaf lettuce. In appearance it is attractive and striking, as it is beautifully curled and crumpled. It does not form a head but produces a large number of leaves of pale green color which are finely curled and crumpled. Retains crispness and sweetness when old. Grows upright. A favorite for forcing. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.

ROMAINE.—Leaves are of rather light green color, shading to white when blanched. More self-folding than any other variety of cos lettuce, so it is not necessary to tie the leaves in order that it may blanch. Pkt. 5c, oz. 15c, ¼ lb. 50c.

MIXED LETTUCE.—A careful and proportionate mixture of the above. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

SIX SAVORY SALADS

The seeds in this offer will furnish you a succession of the best salad items from earliest spring, through summer and until severe winter. One pkt. each Romaine Lettuce, Chinese Cabbage, Swiss Chard Beet, New Zealand Spinach, Corn Salad, and Endive.

All Postpaid for only 30 Cents

MUSTARD

A pungent salad used for greens. Sow thickly in rows. One ounce will sow about 75 feet of drill.

OSTRICH PLUME.—Leaves are long, ruffled, frilled and curved gracefully as an ostrich plume; desirable for garnishing. Can be cut quite early. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

SOUTHERN GIANT CURLED.—This is the true curled leaf variety so popular in the South for fall planting for early spring salad. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 75c.

WHITE ENGLISH.—Seeds are white and is preferred by housewives for pickling on that account. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 75c.

LETTUCE SOWN BROADCAST ON GOOD GROUND MAKES EXCELLENT GREEN FEED FOR POULTRY. GIVE IT A TRIAL.

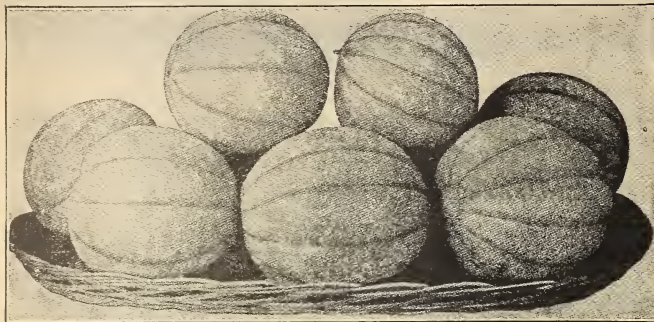
MUSK MELON

(One ounce will plant about 80 hills, 2 lbs. to the acre.)

Musk melons require a rich, well drained soil. Plant early as safe from frost; cultivate until vines cover the ground. Plant in hills 4 to 6 feet apart. Use plenty of seed.

EMERALD GEM.—Finest in flavor and the earliest to ripen; too soft to stand shipping any great distance; unequalled for home use or nearby markets. Vines are strong and vigorous; very prolific. Rather small and flattened at both ends. Emerald green between ribs. Flesh very thick, crystalline, of rich salmon color. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

BURRELL GEM.—A truly delicious melon about the same size and shape as Rocky Ford, but has rich, golden yellow flesh of most delicious flavor; solid and a most desirable shipping sort. The seed cavity is very small. Average about 6 inches long, $4\frac{1}{2}$ inches in diameter, and weigh $2\frac{1}{4}$ lbs. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.



BURRELL GEM

OSAGE.—One of the best; greatly liked by gardeners. Flesh salmon color, sweet and spicy, very thick and delicious. Seed cavity very small. Medium size, oval, lightly ribbed. Skin thin, dark green color and covered with shallow netting. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

GRAND RAPIDS.—Extremely early. Flesh pure yellow to the rind, finely netted. Larger than the Rocky Ford type, averaging in size with Osage. Of handsome and attractive appearance; good quality. Recommended as a market sort. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

NETTED ROCK KING.—A golden fleshed variety of Rocky Ford type. A new sort which we prefer because of its wonderful sweetness. See illustration below. Size same as Rocky Fords. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.



NETTED ROCK KING

BANANA.—Attain a length of from $1\frac{1}{2}$ to 3 feet; 3 to 4 inches thick. Flesh is very thick, of salmon color, and fine grained. Has a pleasing flavor, peculiar to itself. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c.

CASABA OR WINTER MELON

Fruits are picked before ripe, stored in a cool place, and brought to a warm room for ripening.

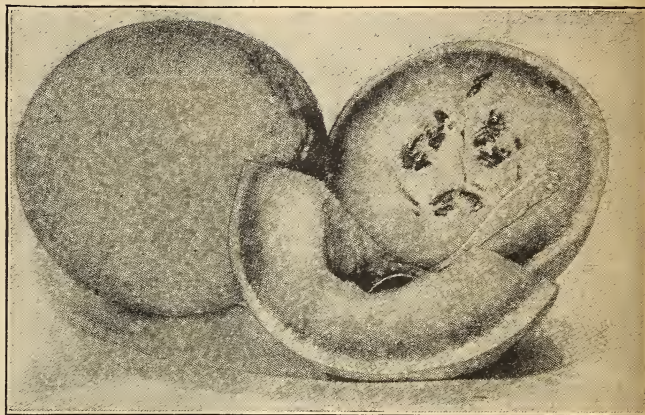
GOLDEN HYBRID.—A beautiful golden color when ripened. Best flavored of this type. Pkt. 10c, oz. 25c.



EMERALD GEM

HONEY DEW.—The picture is typical of its shape. Every melon is a good one. Flesh is light green and sweet as honey. The rind is straw yellow in color, smooth as an egg and hard as the rind of a winter squash. It is therefore a good shipper, is good right off the vine, and will keep good for months in a cool place. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 65c, lb. \$2.00, postpaid.

THOROUGHbred ROCKY FORD.—This variety is in great demand by high-class hotels and restaurants. Just the right size for table use, slightly oval in shape, flesh thick of light green color, and fine, juicy, luscious flavor. Very early and wonderfully productive. Our seed is from the best melon grower at Rocky Ford. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.



HONEY DEW MELON

IMPROVED GREEN NUTMEG.—Fruit medium size, very rich and melting, exquisite flavor; flesh light green; very productive. Is one of best main crop sorts. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

IMPROVED EARLY HACKENSACK.—Largest early sort. Good quality, firm and heavy; deeply netted; flesh light green; splendid market melon. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

ENORMOUS.—Grows to immense size. Oblong with wide fissures. Well netted but so large that the netting does not show as heavily as on the smaller varieties. Has been grown upward of 15 lbs. in weight. Flesh very thick, salmon colored and of better flavor than any other large melon. Pkt. 10c, oz. 25c.

TIP TOP.—(Orange Flesh.)—A fine, nearly round melon of such attractive appearance as to always sell quickly. It is sweet, juicy and delicious. Of large size; evenly ribbed and moderately netted; strong grower, heavy yielder. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

BAY VIEW.—A fruit of large size. Deep ribbed and coarse netted. Of good flavor, productive, with firm flesh, and does not rot quickly. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

MIXED MUSK MELON.—Containing above different and desirable varieties. Pkt. 5c, oz. 10c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.



BANANA MELON

YOU CANNOT BUY IN MARKET AS GOOD MUSK MELONS AS YOU CAN GROW WITH LESS COST IN YOUR OWN GARDEN



COLE'S EARLY

MCIVER'S SUGAR

FORDHOOK EARLY

IMPROVED TRIUMPH

(One ounce is required
for forty hills.)

WATER MELON

(Three pounds will
plant an acre.)

A light sandy soil, with good exposure to the sun, is the best for water melons. It should be prepared deep, but receive shallow cultivation. Hoe often and thoroughly. Plant in hills 8 to 10 feet apart each way. Plant 8 to 10 seeds in a hill; when danger of insects is past, leave but three plants.

COLE'S EARLY.—The finest variety for the private garden, but is too brittle for long shipment. It is very early and will mature farther north than most other sorts. Of medium size; very productive. Flesh bright red, of granulated, sparkling appearance. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

MCIVER'S WONDERFUL SUGAR.—A famous melon for sweetness and high quality. Fruits are long and of large size, averaging about 50 lbs. each. One of the handsomest, being rather light colored, irregularly striped and mottled dark green. Rind is thin but tough; a good shipper. Flesh is delicate light red, entirely stringless and tender. Vine is strong, vigorous, prolific. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.

FORDHOOK EARLY.—Large, early variety. From seeds planted May 10th, ripe melons have been produced the last of July. The rind is tough, making it valuable for shipping. Color is uniform medium green; flesh red, very sweet, solid, and of excellent quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

IMPROVED TRIUMPH.—Is undoubtedly the largest of all melons, having been grown to the extraordinary weight of 147 lbs. Very productive. It is of dark green color, matures in good season, flesh dark red, solid, and of excellent quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

MONTE CRISTO, or Kleckley's Sweets.—(See cut below, No. 1.)—A wonderfully popular variety. After testing all varieties we do not hesitate to pronounce this one of the sweetest, juiciest, most delicious melons; flesh bright red and rich, crisp and pleasant flavored. It ripens early, is of good size, a good shipper and a long keeper. Market gardeners will be pleased with it. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

PEERLESS, or Ice Cream.—(White Seeded.)—Very early, medium size, thin rind, flesh bright scarlet, great home market melon. Few surpass it in melting, delicious quality. Color green, slightly mottled, shape oblong to round, and appearance attractive. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

HALBERT HONEY.—(See cut below, No. 3.)—A very early variety; medium size; fine, oblong shape; very prolific; skin handsome dark green; flesh a rich crimson, fine grained, melting and exquisite flavor. No equal as home or nearby market melon but will not stand much handling. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

IRISH GREY.—Shaped like Tom Watson, equally as large and fine. Distinctive in color. Skin is a very light green, with very small dottings of darker shade which are rather indistinct. Its general appearance is a bright gray, hence the name. A splendid new sort of choicest quality and attractive in appearance. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

TOM WATSON.—(See cut below, No. 2.)—A leader among melons, because of quality and shipping excellence. The Tom Watson is large, oblong, skin dark green, with thick netting on entire surface, quite distinct from other varieties. Averages 18 to 24 inches long and 10 to 12 inches in diameter and weight 50 to 60 pounds. Rind is thin but tough and flesh a bright, attractive red, crisp, sweet and delicious. The heart is large with no core. Seeds white, tipped brown. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

SWEETHEART.—Favorite Des Moines market sort. It is early, large, handsome, heavy, a good shipper, long keeper, of bright color and good quality. The fruit is large, oval, very heavy, uniformly mottled light green; rind thin but firm; solid, tender, melting and delicious. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

MOUNTAIN SWEET.—The old standard, is still quite popular in the North, where large fruited southern sorts do not ripen. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

GOLDEN SWEET.—The Golden Sweet is a most delicious and fine flavored melon, unsurpassed for sweetness and aroma. Outside skin dark, shape oblong, averages about 20 lbs., just right for family use. Rind very thin but hard and will carry without cracking or bursting. Flesh old gold yellow, solid, smooth, with few seeds. This is without exception the highest quality water melon in the list, and this is true of every melon in the field. We have never yet found a poor melon. Illustrated in colors on outside back cover page. One of the items in our Superlative Specialty Collection. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c.

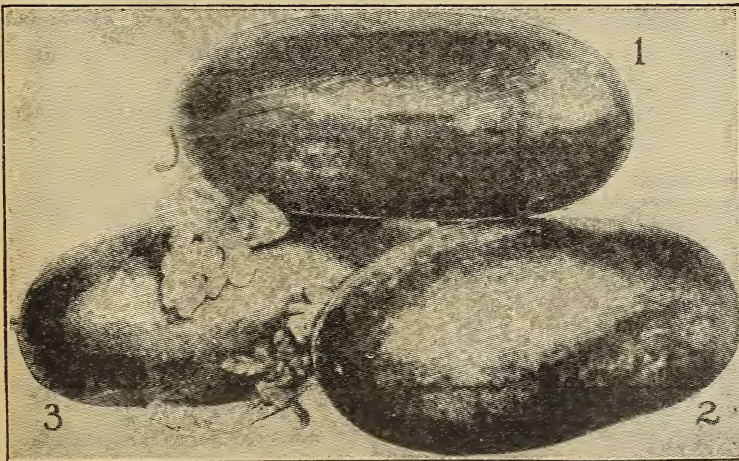
CITRON MELONS

Nice for preserving and largely used for this purpose.

APPLE PIE.—Will be appreciated in many parts of the country. Illustrated on page 7 of this catalogue, where it is offered in our Canning Club Collection. Vine and fruit similar to a water melon and easily grown on any good soil. Each hill produces from 5 to 15 fruits and one of the large size will make as many pies as a half bushel of apples. The flesh is white, solid throughout and of excellent quality for making pies, preserves, etc., and resembles apples in flavor. They keep nice and fresh all winter, so they can be used any time and any surplus can be fed to the live stock. Pkt. 10c, oz. 25c.

COLORADO PRESERVING.—This is a large fruiting strain of citron for preserving. The flesh is clear white and very solid. Green seed. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

RED SEEDED CITRON.—Is round, dark green, striped and mottled with light green. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.



1—MONTE CRISTO; 2—TOM WATSON; 3—HALBERT HONEY

WATER MELONS ARE ENJOYED BY EVERYONE. THEY ARE FAR SUPERIOR IN FLAVOR AND QUALITY WHEN HOME GROWN



Good onion seed is of the utmost importance as it is one of the most important crops grown, and there is no other vegetable where the quality of the seed exerts a greater influence upon the crop than onions. There is more money in onions grown from seed than almost any other crop. Fully realizing this, we have for many years made a specialty of onion seed which is all grown from choice, selected bulbs, critically examined before being set out for seed. In vitality it is very strong, being carefully tested, and we are sure that **OUR ONION SEED CANNOT BE EXCELLED** in purity, vitality or high quality. Large onions can easily be grown the first year from the seed by obtaining our American grown onion seed. The crop was short this year and prices may advance. In comparing our prices with others, remember that we **pay the postage**. Deduct ten cents per pound if to be sent by express. Ask for prices in large lots.

LARGE RED WETHERSFIELD.—Is the standard sort throughout the country, the easiest to grow and the surest to make a good crop, being hardy and not subject to decay in very hot or wet weather. Of finest form, skin deep purplish red. The flesh is purplish white, and fine grained. Our seed is extra select and cannot be excelled. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$1.85. By express, 5 lbs. for \$8.00.

SOUTHPORT RED GLOBE.—This is a very handsome variety and is deserving of general cultivation. It is medium early, none of the perfectly globe-shaped onions are as early as the flat varieties; grows to a large size, skin deep red, flesh fine grained, mild and tender. It is steadily increasing in popularity as the market is demanding globe-shaped onions more than formerly. They require better soil and cultivation to make a crop than the flat varieties, but much more than pay for it in increased yield and price. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$1.85. By express, 5 lbs. for \$8.00.

GOLDEN GLOBE.—Offered by us as the very best yellow, globe-shaped onion for general culture. Always uniform in shape, size and color. Is surely thoroughbred, and the entire crop looks like carefully hand-selected onions. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$1.85. By express, 5 lbs. for \$8.00.

YELLOW GLOBE DANVERS.—Handsome, globe-shaped sort of large size, with yellow skin. Very firm and the best of keepers. Has yielded 1,000 bu. per acre. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

EXTRA EARLY BARLETTA.—Is a distinct variety; the very earliest onion in cultivation. They are of a pure paper-white color, very delicate in flavor, and in size grow 1 to $1\frac{1}{2}$ inches in diameter. For table use and pickling it is most valuable. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

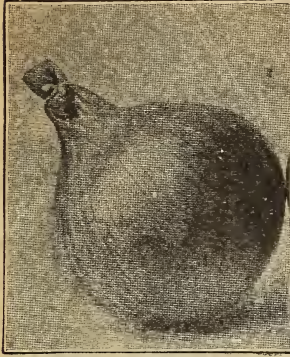


CULTURE.—One ounce will sow about 100 feet of drill; 4 pounds will sow one acre. The soil for onions should be a rich loam thoroughly enriched with well-rotted manure and pulverized before sowing the seed. It should be as free from weeds and grass as possible. As early as the ground can be worked in the spring, sow the seed in drills 14 inches apart, covering one-half inch. Commence hoeing as soon as the rows can be seen; skim the ground over the surface; avoid stirring deeply, and work the soil away from the bulbs. At second hoeing weed carefully and thoroughly by hand. For pickles or sets the seed should be sown very thickly and in broad drills, about 50 pounds to the acre for sets, and 15 to 20 pounds for pickling. For sowing seed and cultivating the crop it will pay you to purchase a good drill and hand cultivator. See description elsewhere. Lang's Hand Weeder, price 30c, postpaid, is the best hand weeder made.

LARGE WHITE GLOBE.—The handsomest market variety; beautiful, clean, pure, silvery white bulbs, of large, even size, globe-shape, mild and pleasant flavor, and outsells every other variety. Undoubtedly the best white sort. Will yield as many bushels per acre as any of the American varieties. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

WHITE PORTUGAL or SILVER SKIN.—Especially adapted where an early maturing white onion is wanted. Bulbs grow flat to good size, ripening early and quite evenly. Skin is a clear silvery white, of very handsome appearance. Sown thickly at the rate of 20 lbs. per acre will produce immense crops of small onions for pickling and for sets. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

AUSTRALIAN BROWN.—Color is peculiarly clear amber brown, quite distinct from any other variety. It is one of the best in keeping qualities, and grows to large size. A splendid shipping variety as it will carry any distance. The distinct color is an advantage in many markets. In California, where onions are a staple crop, this is the popular variety because of its hardiness, vigor and wonderful crops produced. Our seed is American grown. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 50c; lb. \$1.50.



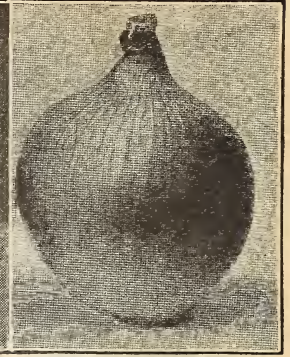
GIANT VESUVIUS



COPPER KING



AILSA CRAIG



MAMMOTH PRIZETAKER

BIG ONIONS

For table use large onions are much preferable to small ones and they bring a better price on the market. The varieties listed on this page are of immense size, splendid quality and yield wonderful crops.

MAMMOTH PRIZETAKER.—One of the largest and handsomest of yellow onions, having been grown to enormous weight of over 6 lbs. Of a clear, bright straw color, and uniform, perfect globe shape. Produces enormous crops, one report being of over 1,200 bu. per acre, and they bring an extra price, being sold as fancy onions. Keep wonderfully well. They ripen up hard and firm, and present the handsomest possible appearance in market while the pure white flesh is fine grained, mild and delicate in flavor. To grow the largest size, sow seed early in hot beds and transplant to open ground as soon as the weather is favorable. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

GIANT VESUVIUS.—This mammoth variety is a foreign sort. In rich soil, under good cultivation, they grow to an enormous size the first year. They are of a handsome globe shape, somewhat elongated and are veritable beauties. Will attract attention anywhere. The color is a light red; flesh is white and quality excellent. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.



SILVER KING

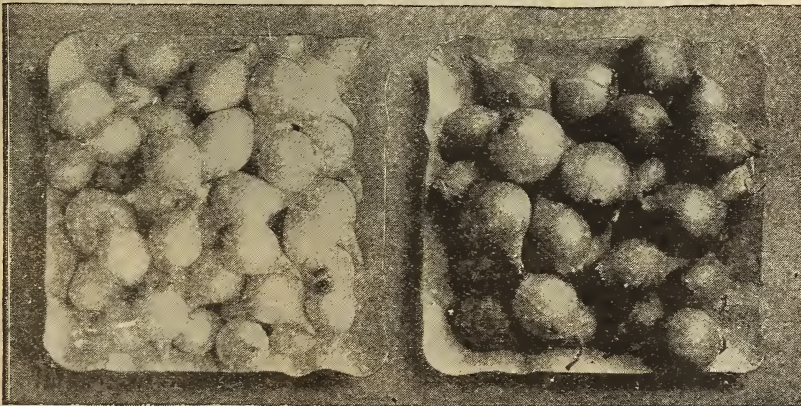
The Five Giants

One packet each of Mammoth Prizetaker, Ailsa Craig, Copper King, Giant Vesuvius and Silver King
FOR ONLY 35 CENTS

AILSA CRAIG.—A mammoth variety introduced from England, where it has exceeded all other varieties in size, and because of its very light (almost white) color is exceedingly popular as a market sort. It is claimed that the largest onion ever produced was of this variety, weighing nearly seven pounds. Shape and style of the Prizetaker. Color is pale straw yellow. Flavor is exceedingly mild and sweet and its appearance is so attractive that it will command the highest prices. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

MAMMOTH SILVER KING.—The largest pure white onion, no other approaching its mammoth size. Of attractive form, flattened, but thick through as shown in cut. Often weigh from 2 $\frac{1}{2}$ to 4 lbs. each. Beautiful silvery white; flesh snowy white, sweet and tender. Matures early; of uniformly large size, perfect shape and bring a high price in market. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

COPPER KING or MAMMOTH POMPEII.—Have been grown to the enormous weight of 5 lbs. 6 oz. and not withstanding their large size they retain their shape and fine quality. To obtain an idea how large this really is, just weigh the largest onion you can find and compare weights. Copper color, flesh white, fine grained, mild. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 85c, lb. \$3.00.



WHITE AND YELLOW ONION SETS FROM SEED

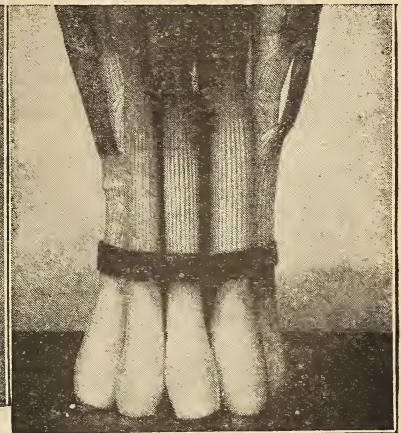
ONION SETS

For early onions for bunching; ready for the table in a very few weeks. Is cheaper to grow from seed but is considerable work to weed, and many prefer to buy sets. Price per pound includes postage; deduct 10c per pound if by express. Three pounds and larger lots shipped at buyer's expense. Legal weight of top sets 28 lbs. per bushel; other kinds 32 lbs. so that 1 lb. equals 1 quart. Write for prices for large lots.

WHITE BOTTOM SETS.—White onion sets from seed are best for early use and large onions. $\frac{1}{2}$ lb. 20c, lb. 30c, postpaid; not prepaid, 4 lbs. \$1.00.

RED BOTTOM SETS.—Are like the white, except that they are of dark red color. Very hardy. $\frac{1}{2}$ lb. 20c, lb. 25c; not prepaid, 4 lbs. 80c.

YELLOW BOTTOM SETS.—Like the white, except color. More used than any other kind. $\frac{1}{2}$ lb. 20c, lb. 25c; not prepaid, 4 lbs. 80c.



YOUNG ONIONS GROWN FROM SEED SETS

POTATO ONION SETS.—A species of Multiplier Onion, increasing from bulb; early; matures quickly; mild. $\frac{1}{2}$ lb. 20c, lb. 40c; not prepaid, 3 lbs. \$1.00.

PERENNIAL, or Winter Sets.—Also called Egyptian or Tree Onions. Usually set in fall; produce earliest spring onions without winter protection. Do not make large bulbs. $\frac{1}{2}$ lb. 20c, lb. 40c; not prepaid, 3 lbs. \$1.00.

Shipment after August 1st.

YOU SHOULD HAVE A GOOD DRILL AND CULTIVATOR TO GROW ONIONS. WE RECOMMEND THE PLANET JR. TOOLS



OKRA



MARKET GARDENER'S PARSLEY.

PEPPER

(One ounce will produce about 1,800 plants.) Sow seed in hotbed early in spring; transplant to open ground when the weather is favorable, in warm, mellow soil, in rows 18 inches apart. Seeds germinate slowly, require considerable heat.

CORAL BOUQUET.—(See cut No. 1.)—This new red hot pepper is the finest of the smallest sized varieties. Excellent for pepper sauce. Nice for mixing piccalilli. Pkt. 10c, oz. 75c.

RED CHILI.—(See cut No. 7.)—Small, long fruit, but very hot. Used for pepper sauce. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50.

SUNNYBROOK.—This is in every respect the best of the pimiento class of sweet pepper. In shape it is almost a globe, somewhat dented at the stem, a bright red in color, about $2\frac{1}{2}$ inches in diameter and is the thickest fleshed pepper we have yet seen. Very sweet, of excellent flavor, and not a trace of pungency. Plants grow nearly two feet high, well branched and heavily laden with fruits. Pkt. 10c, oz. 75c.

PIMENTO.—(Illustrated page 7.)—A new and distinct pepper. Perfectly sweet, having no trace of pungency. Plants are loaded with fine, perfectly smooth fruits, medium size and thick meat. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50.

RUBY KING.—(See cut No. 2.)—Very large in size, $4\frac{1}{2}$ to 6 inches long by $3\frac{1}{2}$ to 4 inches thick. When ripe are beautiful bright ruby red and always remarkably mild and pleasant to the taste. Splendid for stuffed peppers or mangoes. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50.

CHINESE GIANT.—Most gigantic of all Giant Peppers. A fine mild pepper of enormous size, and brilliant, glossy scarlet color. The flesh is mild and unusually thick. Excellent for salad. Pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$2.00.

LARGE BELL, or Bull Nose.—The standard variety for mangoes or sweet pickles. Fruits large, uniform, thick, meaty and smooth; very pleasant mild flavor; prolific yield; early. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50.

MAMMOTH GOLDEN QUEEN.—(See cut No. 8.)—Similar to red mango peppers. When ripe the color is a bright waxy, golden yellow and mild flavor. A favorite variety for mangoes. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50.

KALEIDOSCOPE.—(See cut No. 5.)—A very ornamental new sort. The small fruit changes from cream color to a deep, shining scarlet. Pkt. 10c, oz. 75c.

MIXED PEPPERS.—A mixture of the above and other fancy varieties. Fine for exhibition. Pkt. 10c, oz. 50c.

OKRA

One ounce will sow about 80 feet of drill.

Nice for soups, stews, etc., and also much liked when pickled. Sow at the usual time of tender vegetables in drills 2 in. deep, leaving plants 2 to 3 ft. apart. Pick pods while young; slice crosswise before cooking.

WYRICK'S NEW GIANT.—Wonderfully productive, the whole plant is covered. Pods are vivid green, 8 to 9 inches long. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

WHITE VELVET.—Pods round and smooth, of attractive appearance, tender; superior flavor. Plants dwarf. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.

PARSLEY

One ounce will sow 150 feet of drill.

Sow early, thinly, in drills, 1 ft. apart, $\frac{1}{2}$ inch deep. For winter use, protect in glass frame or light cellar.

MARKET GARDENER'S.—An extra choice stock with dark green, curled, mossy leaves, very productive. Valuable for either garnishing or flavoring. Early variety. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$1.25.

CHAMPION MOSS CURLED.—Very select stock, finely crimped and curled. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

HAMBURG.—Turnip-rooted variety, used for flavoring soups. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$1.25.

PARSNIP

(1 oz. sows 200 ft. of drill. 5 lbs. sows an acre in drills.)

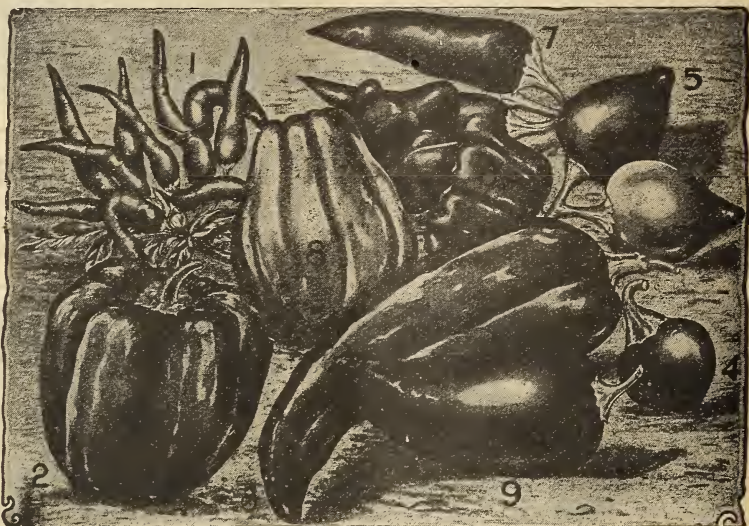
Sow early in spring in good, rich soil, which has been plowed deep, in drills 15 inches apart, covering half an inch. Thin to 5 or 6 in. They are improved by freezing.

IMPROVED TABLE GUERNSEY.—The roots do not grow as long as the Hollow Crown, but are of greater diameter and more easily gathered. Very heavy cropper; roots are smooth, with small top. Flesh fine grained, sweet and of excellent quality; cooks evenly. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.00.

IMPROVED HOLLOW CROWN.—This greatly improved strain is smoother and of more even quality than the original; fine grained and excellent. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.00.



GUERNSEY PARSNIP



PEPPERS. Refer to numbers for description.

PEANUTS

Peanuts can be grown in Iowa, and everyone should plant at least a few for the children. See our Collection for the Children's Garden on page 22.

RED CROSS.—This very desirable variety is early as the earliest, most hardy, very prolific and of best quality. Boys, grow peanuts in your own garden and have plenty of them to eat. Shell nuts carefully so as not to break inside skin, plant as soon as ground becomes warm, from 2 to 3 feet apart each way, 4 or 5 to the hill, covering 2 inches. Soil should be deep and mellow. Pkt. 10c, lb. 30c, postpaid. By express, 5 lbs. or more at 20 cents per pound.

SPANISH.—A very early variety; quite prolific. The pods are rather smaller than the Red Cross variety, but the yield is fully equal in quantity. Per package 10c, lb. 30c, 5 lbs. or more at 20c per lb.



SPANISH PEANUTS

PEAS

(One pound will plant about fifty feet of drill; 2 to 3 bushels per acre.)

Peas mature quickest in light, dry soil. May be sown as early as the ground can be worked, and for a succession every two weeks up to July; or, what is better, select several kinds which will form a succession in maturing. Sow in drills 2 to 4 feet apart, according to varieties, and 2 to 3 inches deep for general crop. The wrinkled sorts are marked.* They are more liable to rot if the ground is wet. We are offering peas by the pound and the pound prices include postage. Larger lots go by express or freight at customer's cost for transportation. If you want the larger lots to come by parcel post you must send postage as shown by table on page 1. Pkts hold 2 oz. each.

EXTRA EARLY SMOOTH VARIETIES

ALASKA.—Height 2 ft.; the pods are rather small, dark green color, well filled; the earliest pea known, being earlier than the First and Best, and 90 per cent of pods can be gathered at first picking. 2-oz. pkt.



IOWA CHALLENGE.

10c, ¼ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 25 cents per pound.

IOWA CHALLENGE.—Extra early variety of superior merit which is a favorite with Des Moines gardeners. We can in confidence say that after a trial of nearly all extra early varieties we have not found one possessing more merit. All good qualities are most nearly brought to perfection in the Challenge. Height 18 inches. 2 oz. pkt. 10c, ¼ lb. 15c, lb. 45c, postpaid. Not prepaid, any amount at 30 cents per pound.

FIRST AND BEST.—A well known standard early pea. Ready to use several days before the early wrinkled varieties. 2-oz. pkt. 10c, ¼ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 25c per pound.

EARLY DWARF WRINKLED VARIETIES

***LITTLE MARVEL.**—Strong vine about 15 inches high, bearing tremendous crops of fair size pods, frequently borne in pairs. Pods contain six to seven large, deep green peas. As early as American Wonder, more productive, and will be preferred by gardeners generally because of extra quality. 2oz. pkt. 10c, ¼ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 35c per pound.

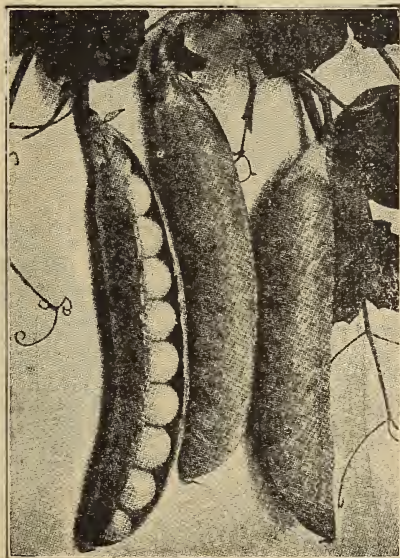
***AMERICAN WONDER.**—Popular extra early variety for family garden. Dwarf, robust habit, growing about 10 inches high; produces a profusion of good-sized, well-filled pods of finest flavored peas. 2-oz. pkt. 10c, ¼ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30 cents per pound.

***PREMIUM GEM.**—For many years the standard dwarf wrinkled pea for the family garden, and market gardeners. Grows 12 to 15 inches high and requires no support. Pods large, dark green, and quality is excellent. 2-oz. pkt. 10c, ¼ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30 cents per pound.

***NOTT'S EXCELSIOR.**—This is an improved Premium Gem. The improvement is in size of pods and in productiveness. 2-oz. pkt. 10c, ¼ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30 cents per pound.

***GRADUS, or Prosperity.**—This remarkable pea is not only large and of best quality, but it is nearly or quite as early as the small, extra early sorts. It is a wrinkled pea with the vine growing about 20 inches high. Pods bright green color and measure 4 inches or more in length. 2-oz. pkt. 10c, ¼ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30 cents per pound.

***LAXTONIAN, or Pioneer.**—This variety is the finest of the very large podded, early wrinkled peas. Vine is not quite so long as Gradus but the pods are fully as large as those of that variety and there are more of them. Both pods and peas are a rich, dark green in color and retain this rich color when cooked. A most satisfactory variety. Pkt. 10c, ¼ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 35c per pound.



STRATAGEM

2-oz. pkt. 10c, ¼ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30 cents per pound.

***GRADUS, or Prosperity.**—This remarkable pea is not only large and of best quality, but it is nearly or quite as early as the small, extra early sorts. It is a wrinkled pea with the vine growing about 20 inches high. Pods bright green color and measure 4 inches or more in length. 2-oz. pkt. 10c, ¼ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30 cents per pound.

***LAXTONIAN, or Pioneer.**—This variety is the finest of the very large podded, early wrinkled peas. Vine is not quite so long as Gradus but the pods are fully as large as those of that variety and there are more of them. Both pods and peas are a rich, dark green in color and retain this rich color when cooked. A most satisfactory variety. Pkt. 10c, ¼ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 35c per pound.



NOTT'S EXCELSIOR

Field Peas, Cow Peas and Soy Beans will be found in the Farm Seed Department of this catalogue.

MAIN CROP VARIETIES

This class of peas all grow vigorously and should have support of some kind. Some of these, like the Dwarf Champion or Everbearing, will give fair results when not given a support, yet it pays to provide some kind of support as they will yield very much more. Where brush cannot be had, poultry netting fence makes a neat and cheap support. If rows run north and south you can plant a row on both sides of the netting.

***DWARF CHAMPION.**—Splendid main crop variety; bears a profusion of good sized, well filled pods; vines seem less affected by mildew than most late peas; make a sturdy growth 2½ feet tall. Very prolific; quality excellent. Much used by market gardeners. 2-oz. pkt. 10c, ¼ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30 cents per pound.

***EVERBEARING.**—Fine for main crop. Grows about 2 feet high, strong and vigorous, branches freely; does well without support. Continues to grow and produce pods a long time if pods are kept picked as they grow. Both pods and peas of good size. 2-oz. pkt. 10c, ¼ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

***IMPROVED STRATAGEM.**—Most popular late variety for market or family use. Preferred because of the immense size of pods and peas and exceptional sweetness and tenderness. Half dwarf sort, 2 to 3 feet high. Is a vigorous grower and an enormous cropper. Pods contain 7 to 9 large peas. 2-oz. pkt. 10c, ¼ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 35 cents per pound.

***CHAMPION OF ENGLAND.**—Well known standard sort, grows 4 to 5 ft. high and requires support, but fine quality and large crop produced more than repays any extra labor required. A strong, vigorous grower, continues to bear for a long time. 2-oz. pkt. 10c, ¼ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

MAMMOTH LUSCIOUS SUGAR.—Bears pods much larger than any other variety, often 6 or 7 inches long and 1½ inches broad. They should not be shelled, but the peas and pods are cooked and eaten together. Grows quite tall, 5 to 6 ft. high and requires support. Very popular because of sweetness and the ease with which it is prepared for the table. Pkt. 10c, ¼ lb. 15c, lb. 40c, postpaid.

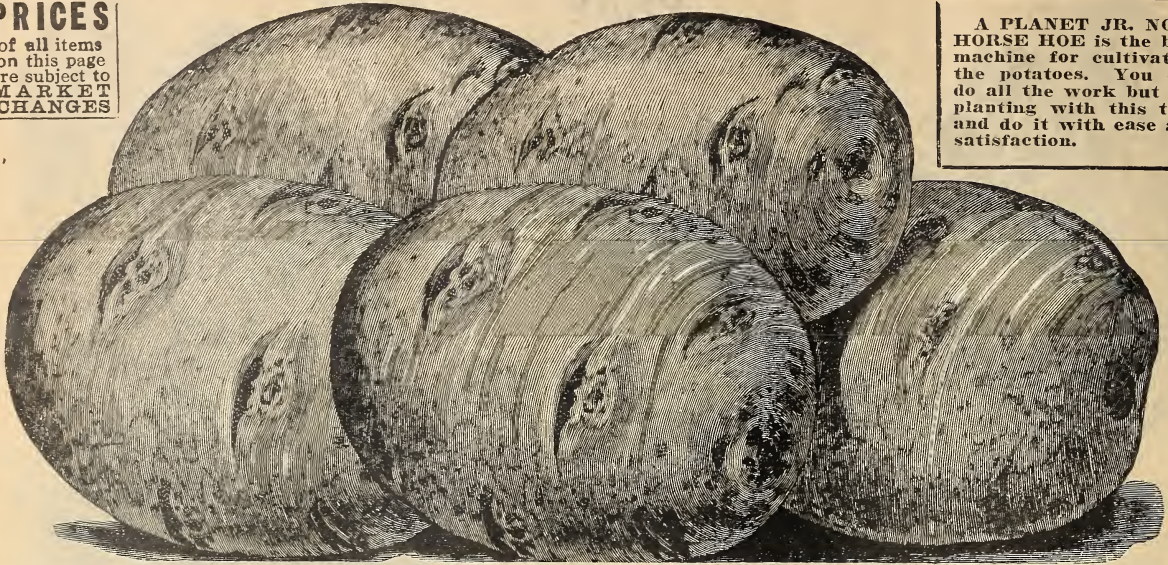
WHITE MARROWFAT.—Used almost exclusively for late summer planting by market gardeners and is very productive. Grows 3 to 4 feet and is best if supported, though support is not usually given. Peas are smooth and very large. 2-oz. pkt. 10c, ¼ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 25 cents per pound.

THE SEED PEAS WHICH WE OFFER ARE THE BEST PRODUCED ANYWHERE IN THIS COUNTRY. THEY WILL PLEASE YOU.

PRICES

of all items
on this page
are subject to
MARKET
CHANGES

**A PLANET JR. NO. 8
HORSE HOE** is the best
machine for cultivating
the potatoes. You can
do all the work but the
planting with this tool,
and do it with ease and
satisfaction.



FANCY NORTHERN GROWN EXTRA EARLY OHIO (*Grown in Red River Valley*)

SEED POTATOES

"Professor C. L. Fitch, specialist in vegetables, of the Extension Department at Ames, says: 'All northern Iowa should buy each year from the best regions in Wisconsin and Minnesota enough seed potatoes to grow their seed for the next year. Practically all of southern Iowa should buy all their Early Ohio and Irish Cobbler seed in most seasons and all their Rurals in trying seasons. Our demonstrations show a gain by this practice of from 25 to 75 bushels per acre in one case at Sigourney.'"

EXTRA EARLY OHIO

We have these grown about 400 miles north of Des Moines, and careful tests have proved them fully ten days earlier than Iowa grown. This is a great advantage and makes this the most popular of all. They are all of good, average size, strictly pure, smooth and free from scab or rot. It is an especial favorite with marketmen, and the most profitable they can grow. Sprout is very strong and vines grow erect, making it easy to cultivate, and on account of early maturity you get the highest market prices. Will keep firm till late in the spring. Frequently sold under the name Early Six Weeks. Desirable for late planting as they keep well for winter. Pk. 50c, bu. \$1.50.

EXTRA EARLY TRIUMPH

A popular first early variety. This is the round, red potato which is generally in our markets as new potatoes early in spring. Most of our customers are no doubt familiar with the Early Triumph. The color is bright red; shape is almost spherical, and in size they are about equal to the Early Ohio. They ripen very quickly and are ready for the table as soon as large enough. Our stock is strictly pure. Pk. 75c, bu. \$2.40.

IRISH COBBLER

Has the form and color so popular in the market. Is prolific and profitable to the grower and has become a much prized variety. Matures as early as the Ohio, and is preferred because it is smooth and round in shape and of cream white color. The flesh is white and of fine quality and flavor. It is a strong, vigorous grower, with strong germ. Eyes well developed and slightly indented. Generally quoted at a premium in the summer markets because it is of economical shape, there being no waste in preparing for cooking. Pk. 50c, bu. \$1.60.

ROSE OF THE NORTH

An improvement on the old Early Rose which has been grown on the virgin soil of the far north. It is very early, being only a trifle later than the Early Ohio and much larger. Is smooth and of handsome rose color. Quality superb, either baked or boiled, and yields immensely. It is rapidly gaining the place being held by the old Early Rose. Pk. 50c, bu. \$1.50.

HYBRIDIZED POTATO SEED.—Potato seed from the flower boll (the true seed). It is from such seed that the choice new varieties of potatoes are originated. The result is interesting and often very profitable, and you are just as apt to obtain a choice new variety as a potato specialist. Pkt. 10c, 3 for 25c.

RURAL NEW YORKER

One of the largest yielding varieties in existence. Preferred by large buyers because it is large and unusually smooth, with few and shallow eyes, skin white as is also flesh, which is of good quality. Medium late and the best drouth resister. There is no other potato of more handsome appearance than the Rural New Yorker. It is very hardy and will stand the heaviest manuring without getting scabby or spotted. Under ordinary circumstances they will yield from 300 to 400 bushels per acre and by heavy manuring this yield can be almost doubled. Pk. 45c, bu. \$1.40.

NORTHERN KING

Offered as the potato par excellence in quality. Has light red or pink color and oblong shape and is vigorous and prolific. Will make a crop under most trying conditions. It is quality that recommends this variety, the writer preferring them to all other kinds for winter. The tubers average larger in size than most sorts, are of good shape, and they cook whole, either baked or boiled, without hard centers or becoming "soggy." For the family who wish to grow their own potatoes for the winter supply we believe the Northern King will prove the best. Pk. 45c, bu. \$1.40.

BURBANK

An old standard main crop variety which is very popular because of market demand and heavy yields. Satisfies both the grower and the consumer. Tubers are large, oblong and have fairly deep eyes. Color is white, quality excellent. In our opinion no white potato excels the Burbank in quality, and some grown in sandy soils on new land often command a premium in city markets. Pk. 45c, bu. \$1.40.

SEED SWEET POTATOES

PRICES SUBJECT TO MARKET CHANGES

Thrive on any of the loam soils of the Middle West, and do specially well on sandy ground. A few hundred plants will supply all you need. One customer reports 20 tubers, weighing over twenty pounds, from a single hill, and a full bushel from three hills last year. We do not recommend that you buy sweet potatoes for a small family garden. Better buy plants unless you need a thousand or more. Plants are priced on page 24. If you desire information ask for our free circular, "How to Grow Sweet Potatoes."

Our seed sweet potatoes are grown, stored and handled especially for seed purposes. They are not cold storage stock on which the germ has been killed but are fresh and vigorous. It is absolutely necessary that they be handled quickly in spring as they do not keep well after being taken from the storage bins. We cannot guarantee them to be all sound upon arrival and for this reason we hold the potatoes and fill all orders at once so as to get them to you promptly. We usually ship from April 12th to 20th and notify customers when we start them.

EARLY YELLOW JERSEY.—Holds first place. Earliest and most productive; of large, short, chunky shape and of best quality. 10 lbs. \$1.25, bushel basket \$2.50, barrel \$6.00.

NANCY HALL.—A variety originated in the south. Flesh is dark colored and cooks a bright orange. Splendid for baking and is extra sweet and full of sugar. 10 lbs. \$1.25; bushel basket \$2.50. Ask for prices in quantities.

PARIS GREEN AND OTHER INSECTICIDES FOR POTATOES ARE OFFERED ON PAGE 75. DON'T NEGLECT TO ORDER.



CONNECTICUT FIELD

MAMMOTH PUMPKINS

KING OF MAMMOTHS.—Very large, bright yellow, fine grained and of good quality. This is the variety usually grown for exhibition purposes. Reports of almost fabulous size have been sent in by our customers. Grow King of Mammoths and exhibit them at your fair. Our seed is from select specimens. Pkt. 10c, oz. 20c, ¼ lb. 70c, lb. \$2.00.

NEW ATLAS.—The largest of them all. Uniform in shape and we have had them weigh 300 lbs. Our seed is from the largest sized, perfect shaped specimens. Just the thing for exhibition. Flesh rich yellow, very thick, nutritious and profitable to grow for stock feeding. Pkt. 10c, oz. 20c, ¼ lb. 70c.

MAMMOTH TOURS.—Also called "Mammoth Whale." Grows to immense size, sometimes 3 feet in length, and to a weight of 100 to 200 lbs. Flesh of a salmon color. Seed of a peculiar shape. Pkt. 10c, oz. 20c, ¼ lb. 70c.



ATLAS PUMPKIN.

PUMPKIN

(One ounce will plant 25 hills; 4 lbs. will plant one acre.)

The best and most prosperous farmers put in a crop of pumpkins every year. They can be grown separately or with corn, and do not seem to interfere in the least. They are valuable for feeding to stock, and what is a fair without pumpkins, or a Thanksgiving dinner without a pumpkin pie? Planted with corn, two pounds will plant one acre.

PIE PUMPKINS

YANKEE PIE.—The noted New England Pie or Small Sugar Pumpkin. Same shape and color as the Connecticut Field but is smaller, very sweet, fine grained and one of the best varieties for table use. It pleases everyone for making pies. Early. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

LARGE CHEESE.—This is a very popular pumpkin for pies and is quite commonly known as "Sweet Pumpkin." In size they average about as large as the Connecticut Field but are flat shaped, with creamy buff skin and thick golden flesh. It is one of the best of the pie pumpkins and can be grown in the corn like the common cow pumpkin. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 90c. Five pounds by express or freight at 70c per lb.

GOLDEN RUSSET.—An extra choice sweet variety, also called Winter Luxury.



LARGE CHEESE PUMPKIN

Golden yellow, netted or russeted over surface; small to medium size. Unsurpassed as a pie pumpkin and a good seller on market. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

JAPANESE PIE.—This is similar in size and form to the well known Cushaw, but the skin is deep green, with dark stripes. Seeds are marked with curious indentations. Flesh is very thick. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

GOLDEN CUSHAW, or Jonathan.—Like the old Cushaw in shape but of clean old gold color instead of green and white stripe. Flesh is solid, of deep orange color and very rich. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

CONNECTICUT FIELD.—Is the common field or cow pumpkin. It is more generally grown than any other. Good quality for culinary use. Oz. 10c, ¼ lb. 25c, lb. by mail 75c. By exp. or frt. 10 lbs. \$6.00.

COLLECTION OF MAMMOTH PUMPKINS

One Packet Each of the New Atlas, Mammoth Tours and King of the Mammoths, sent postpaid for
ONLY TWENTY CENTS

COLLECTION OF SIX PIE PUMPKINS

One packet each Yankee Pie, Large Cheese, Golden Russet, Japanese Pie, Golden Cushaw and 1 oz. Connecticut Field prepaid 25c

RHUBARB OR PIE PLANT

(One ounce will produce about 100 plants.) Succeeds best in deep, rich soil. Sow in the spring in drills, cover one inch. Thin to six inches apart; transplant in the fall or spring to permanent beds three feet apart each way.

IDEAL MAMMOTH.—The largest pie plant. Leaves four feet across; stalks three inches in diameter and 3½ feet long. Die down in August and starts new growth, making fresh stalks for winter canning. Pkt. 10c, oz. 25c, ¼ lb. 75c.

VICTORIA.—The standard variety. Stalks are not so large as Ideal Mammoth, but are preferred by many on account of their more piquant and rich flavor. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

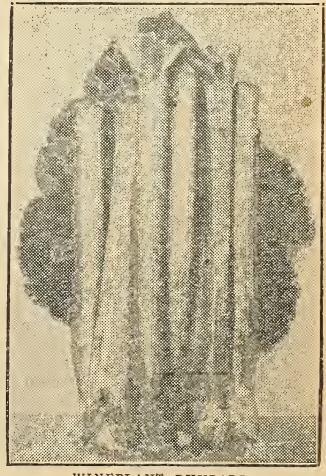
RHUBARB ROOTS

Purchase roots, as you can save one year's time in this way. The roots we offer are large divided plants. Plant spring or fall, setting 3 feet apart.

WINEPLANT, or Strawberry Rhubarb.—The finest and richest flavored rhubarb. Stalks are smaller than other sorts, of a bright red color, and cook red, making a most appetizing dish. Prolific and good all summer. Each 25c, doz. \$2.50, postpaid. By express, not prepaid, doz. \$2.00.

IDEAL MAMMOTH.—The largest variety. Strong roots 25c each, doz. \$2.50, postpaid. By express, not prepaid, per doz. \$2.00.

VICTORIA.—Each 25c, 5 for \$1.00, doz. \$2.00, postpaid. By express, not prepaid, per doz. \$1.50.



WINEPLANT RHUBARB

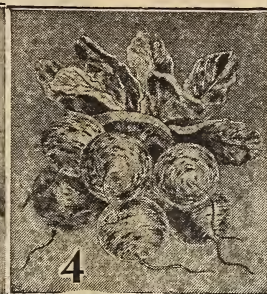
GROW PUMPKINS AMONG THE CORN OR IN THE WASTE PLACES ABOUT THE FARM. THEY WILL PROVE PROFITABLE.



One ounce will sow 100 feet of drill.

RADISH

Eight to ten lbs. will sow an acre in drill.



Radish seed should be sown in light, rich soil as early as the ground can be worked, and for a succession, at intervals of two weeks, until midsummer. Radishes must be grown quickly and have plenty of room or they will invariably be tough and pithy. Sow in drills one foot apart and thin to two or three inches apart as soon as the rough leaves appear.

EARLY BIRD.—Decidedly the earliest of radishes. With loose soil and proper culture the Early Bird is ready for the table in twenty days from the time of sowing the seed, which makes it one of the most desirable sorts ever offered for either forcing or outdoor culture. It is of round or turnip shape, as shown in our illustration, of bright scarlet color and pure white flesh, which is tender, crisp and of the very best flavor. It has few and short leaves. Very desirable for the home garden and for market. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

SPARKLER.—(See cut No. 2.)—This is a new extra early, white-tipped, round radish. It is distinct in that the white tip is larger and more pronounced than in any other sort. The proportions of white and red are well shown in our illustration, and the contrasting colors being so nearly equal gives a most attractive appearance. Well adapted for either forcing in frames or private garden. Quality unsurpassed; remaining solid and crisp. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

EARLY SCARLET GLOBE.—(See cut No. 3.)—This is the standard early round red radish. Of handsome color, crisp, juicy and tender. Forms a small top and will stand a great deal of heat without becoming pithy. Is the gardener's standby for first early radish. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

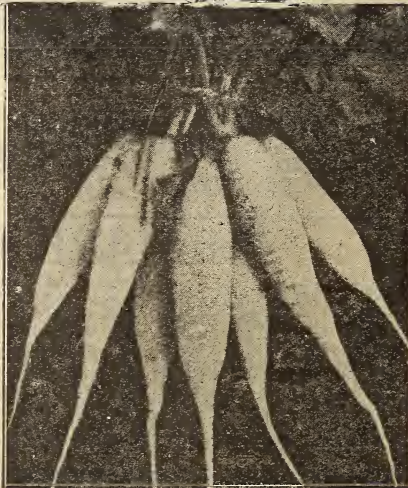
FRENCH BREAKFAST.—(See cut No. 1.)—Of medium size and olive shape, with small top; quick growth; beautiful scarlet color, shading to white. This is our old sort, but it still retains a place in the list because of its beauty and fine quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

CRIMSON GIANT.—(See cut No. 5.)—The most profitable variety for market gardeners, and may well be considered the most valuable new sort sent out for many years. A rapid growing variety, developing roots of size of any other forcing variety. It often measures 9 inches in circumference without getting pithy or hollow, and retains its firmness and tenderness of flesh. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

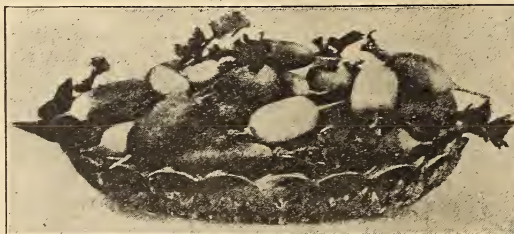
STRIPED TRIUMPH.—(See cut No. 4.)—A beautiful, round variety with white skin striped bright scarlet, being decidedly ornamental. It is very early and has a very small top. The flesh is white, crisp and tender. Always of fine quality. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.



EARLY BIRD



ICICLE



MIXED RADISHES

ICICLE.—A splendid long variety of almost transparent whiteness. Produces nice roots in twenty-two days from the date of sowing, and it continues in prime condition for a long period, so that in one sowing of seed, nice, crisp radishes may be had from spring until mid-summer. It is much the most popular sort in the entire list. There is no variety that grows more uniform in type, and there are none that surpass it in quality. We recommend it as the best. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

EARLY LONG SCARLET, or Short Top.—An old standard variety of quick growth; long, slender root. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

IMPROVED CHARTIER.—The roots are long and cylindrical, scarlet rose above, shading into pure waxy white at the tip. Flesh white, crisp and of mild flavor. Stands hot weather well. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

WHITE STRASBURG.—Of handsome, oblong, tapering shape, both skin and flesh being pure white. The flesh is firm, brittle and tender and retains its crispness even if old and large. Excellent for summer use. Very popular because it remains fit for use a long time and does not get pithy. Sometimes called the Sandwich Radish. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 90c.

MIXED RADISH.—Our mixture of about two dozen kinds contains all shades and shapes; red, white, pink, variegated; round, half-long and long, in great variety. It is all the go for small gardeners, where space is limited and you want to make a garden and be done with it. One sowing does for the whole season, as they come early, medium and late. You always have some that are just right. You will be surprised and delighted with our popular radish mixture. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

WINTER RADISH

SAKURIJIMA.—This is a giant variety of radish from Japan. It has been grown to the enormous dimensions of 43 inches in circumference. The flesh is solid, firm and brittle, and of excellent flavor. Thrive in ordinary garden soil. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00.

CALIFORNIA MAMMOTH WHITE.—Large size, 8 to 12 inches long, 2 to 3 inches thick, white, solid, of good quality. A very popular sort with market gardeners. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

CHINA ROSE WINTER.—A bright rose colored variety. The most popular of the winter radishes because of its bright color, firm flesh and long keeping qualities. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

LONG BLACK SPANISH.—A large, black-skinned radish, with firm white flesh of pungent flavor. A good keeper, lasting until spring. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

YOU CANNOT BUY BETTER RADISH SEED THAN OURS NO MATTER WHAT THE PRICE OR WHERE YOU OBTAIN THEM.

One ounce of early varieties will plant about forty hills, 2 lbs. per acre.

Plant about the middle of spring in hills, the early sorts four to six feet apart, the late varieties eight to twelve. Thin to three plants in the hill. The soil cannot be too rich. Use Slug Shot to kill the bugs.



BLUE HUBBARD SQUASH

SYME'S BLUE HUBBARD.—A new strain of Hubbard and a splendid squash. Very thick meated, is fine grained, dry and excellent flavor. Color clear, light blue; thick shelled and a good keeper. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.00.

TRUE HUBBARD.—This sort is the most popular winter squash grown; hard, green shell; flesh bright orange yellow, fine grained, very dry, sweet and rich flavor; keep in perfect condition throughout the winter. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.

GOLDEN HUBBARD, also called Red Hubbard.—A counterpart of the old Green Hubbard, except in color, which is a bright, deep, orange yellow; fine flavor; in productiveness excels the green variety. Every market gardener will find it a "seller." Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.

EARLY PROLIFIC MARROW.—Early and productive. In color brilliant orange-red; good cooking and keeping qualities. Ripens earlier than the Hubbards and is useful as an early fall variety. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.

DELICIOUS.—A most desirable new winter variety. Color is green. Is about the same size as the Hubbard. Has very thick flesh, cooks dry and is of superior flavor. Although a good fall variety it is best during the winter. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.

BANANA.—A distinct variety of fall and winter squash; very prolific, grows to 2 ft. or over in length; very fine grained, heavy; cooks dry but free from "choky" quality common to winter squashes. Always rich, sweet and splendid flavor. Pkt. 5c, oz. 15c, ¼ lb. 55c, lb. \$2.00.

MAMMOTH CHILL.—"Jumbo" of the family. Color rich orange; skin smooth, wide fissures. Thick yellow flesh. Profitable for stock. Have been grown to weigh 200 lbs. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.75.

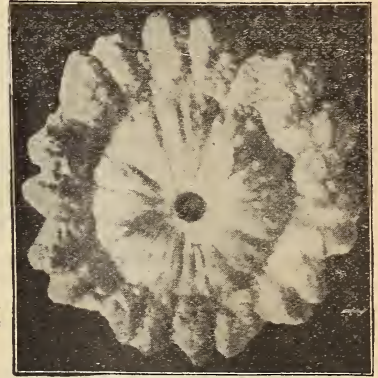


NEW ZEALAND SPINACH

SQUASH

One ounce late varieties will plant about twenty hills, 4 lbs. per acre.

DES MOINES SQUASH.—Introduced by us under the name "Table Queen." Name changed at the request of Des Moines Market Gardeners' Association. Vines are vigorous and very productive. Just the right size, averaging about 6 to 8 inches long and 4 to 6 inches in diameter. Color dark green, with sometimes a blotch of red at pointed end. Shell is hard and smooth, and ridged. Just wash it clean, cut in half, take out the seeds, bake twenty minutes and you will have the nicest squash you ever tasted. Splendid for pies. Ripens in the fall and keeps long as Hubbard. Illustrated on outside back cover page. Pkt. 10c, oz. 25c, ¼ lb. 65c, lb. \$2.00.



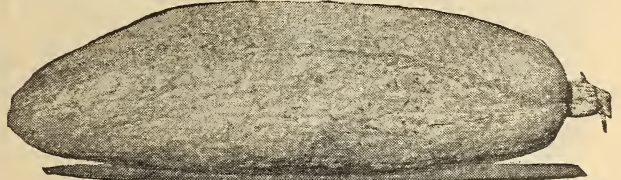
GOLDEN BUSH

GOLDEN BUSH.—(Yellow Bush Scallop.)—The earliest of all and quite a favorite with all who like summer squash. Bright golden yellow color and of excellent quality. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.

WHITE BUSH SCALLOPED.—Like Golden Bush. Sometimes called "Patty Pan." Differs from the Golden Bush in color only, being creamy white without other shading. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.

EARLY BUSH CROOKNECK.—Splendid, early, productive, fine quality. No summer squash superior to this. Shape long, with curving neck, skin wanted. Preferred by many as the best early summer squash. Pkt. 5c, oz. 15c, ¼ lb. 55c.

PEERLESS VEGETABLE MARROW.—In England they consider this far superior to squash. Peerless is the most desirable sort, fruits being handsome shape, creamy white in color, of excellent flavor. Very productive. Pkt. 5c, oz. 15c, ¼ lb. 55c, lb. \$2.00.



BANANA SQUASH

(One ounce will sow 80 ft. of drill.)

SPINACH

(10 lbs. is required to sow one acre.)

Makes the finest "greens" of any plant in cultivation. For summer sow early in spring in deep, rich soil, one foot apart in drills; cover one inch; sow at intervals of two weeks all summer. For very early use sow in September and protect.

NEW ZEALAND.—This is a distinct variety of great merit. It is of the "cut and come again" type of plants. It is ready to use by the time the early spinach has gone to seed and will continue to grow and produce its clusters of thick leaves until frost. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

VICTORIA.—A variety distinguished for its very long standing qualities. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

LONG STANDING.—Standard with gardeners; leaves fleshy. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

BLOOMDALE.—Savoy-leaved, curled sort. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

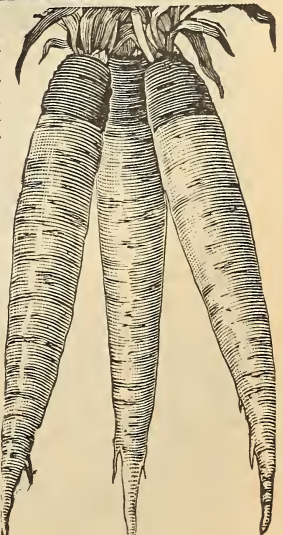
SALSIFY

VEGETABLE OYSTER

(One ounce will sow 50 ft. of drill, 8 lbs. per acre.)

It is one of the most delicious and nutritious of vegetables and should be more generally cultivated for use in the winter, when the supply of really good vegetables is limited. It has the true oyster flavor and is a delicious substitute for them in soup, etc. Cultivate like parsnips.

MAMMOTH SANDWICH ISLAND.—The best variety. The roots are white, smooth, and of superior quality. Pkt. 10c, oz. 20c, ¼ lb. 65c, lb. \$2.00.



SALSIFY

IF YOU RAISE MORE SQUASHES THAN YOU CAN SELL ON THE MARKET, THE LIVE STOCK WILL EAT THEM EAGERLY.

TOMATO

(One ounce will produce about 2,500 plants.)

Sow early in hotbeds or seed boxes and when plants have four leaves transplant to 4 or 5 inches apart. Give plenty of air and endeavor to secure a vigorous growth. When all danger of frost is past, transplant to the open ground, 4 to 6 feet apart each way. Well manured, light, sandy, soil is best. Our tomato seed is saved from hand picked fruits. No decayed or deformed tomatoes are used.

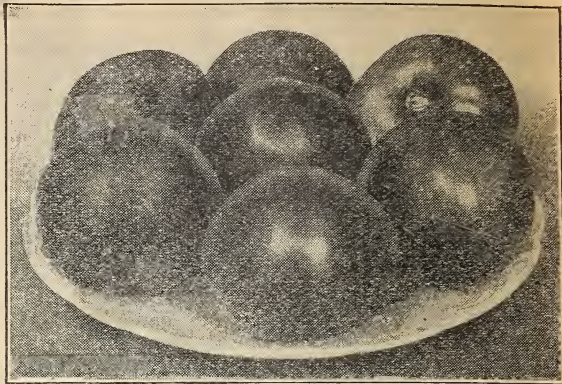
SPARKS' EARLIANA.—The best known of the very early varieties. Has large, bright red fruits. Foliage is light and thin which makes for earliness. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.00.

JOHN BARR.—This variety is offered as one of the earliest for home and commercial use. In our trials we found it to mature about the same time as Spark's Earliana, which variety it resembles in size, shape and color. Vines are not very large, but are productive, bearing the fruits in clusters and abundantly. The Tomatoes are of medium size, nearly round in shape, scarlet in color and of excellent flavor. On account of the large yield, desirable size and shape, this variety is suited both for early market and home use. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

BONNIE BEST.—A very early and desirable variety. The fruits are most attractive in shape, solidity and color, which is bright scarlet from outside to center. The vines are strong and vigorous, producing a good crop of round, globe-shaped fruits which ripen more uniformly than other early sorts. A favorite with market gardeners. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

DWARF CHAMPION.—Plant is dwarf and compact, stem stiff and short jointed, almost self-supporting when it is laden with fruit. Early. Color purplish pink. Fruit is smooth, symmetrical, solid and of fine quality. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

LIVINGSTON'S BEAUTY.—One of the best. Its size, beauty, shape, flavor and productiveness make it desirable to market growers. In color it is purplish red. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.



SUPERLATIVE

SUPERLATIVE.—The best of all the main crop tomatoes. Fruits are medium size, very solid, and without exception the best flavored red tomato we have ever grown. It is very handsome, being a pinkish crimson in color. While we grow many other varieties on our seed farm, our women folks use Superlative in preference to any other. Illustrated in color on outside back cover. One of the items in our Superlative Vegetable Collection. Pkt. 10c, oz. 50c.

MATCHLESS.—Well worthy of its name, for in beauty, color and symmetry of form it is without a peer. Vines of strong, vigorous growth, well set with fruit, very rich cardinal red color, and not liable to crack from wet weather; of large size and size of fruit maintained throughout season. Solid, of fine quality, and keeps well. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

BONNIE BEST

PERFECTION.—Large and round, smooth and handsome red fruit of highest quality. It proves very satisfactory for forcing under glass. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 85c, lb. \$3.00.

PONDEROSA.—Very large, inclined to be irregular in shape, but of fine quality. A variety quite generally known, popular. Fruits solid, color purple. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.50, lb. \$5.50.

CRIMSON CUSHION.—Can be grown on trellises. Grows 7 to 10 feet high, if desired; most of fruit is borne 3 to 4 feet from the ground. Fine quality, extremely large, excellent. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.50, lb. \$5.50.

GOLDEN QUEEN.—Large, yellow. Its fruit is smooth and of finest flavor; ripens evenly; handsome. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.10, lb. \$4.00.

WONDER MAGNUS.—Deep rich, red color, very solid and containing few seeds. The best of the potato-leaved tomatoes. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

Note our
Collection for
Canning,
Preserving
and
Pickling
on page 7



MATCHLESS

PRESERVING TOMATOES

GOLDEN NUGGET.—(See Canning Club Collection, page 7.) Fruits are beautiful golden yellow, round as a ball and about as large as a hulled black walnut. Flavor exceptionally fine, and a most desirable variety. Pkt. 10c, oz. 50c.

PEACH.—Named from its resemblance to a peach in size and shape. Color a peculiar shade of pink and orange, differing from ordinary tomatoes. A fine sort for preserving. Pkt. 10c, oz. 50c.

YELLOW PEAR.—A favorite with all who know them. Pear-shaped and a deep yellow color. Highly valued for preserving or to make "tomato figs." They are fine pickled. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.

CRIMSON CURRANT.—A most charming little fruit, of bright crimson color; borne in long clusters containing from twenty to sixty tomatoes, about the size of currants. Excellent for eating from the hand or preserved. Pkt. 10c, oz. 60c.

STRAWBERRY, or Husk Tomato.—Also called Ground Cherry. Is of spreading habit and immensely productive. Pkt. 10c, oz. 40c.



GOLDEN NUGGET TOMATO

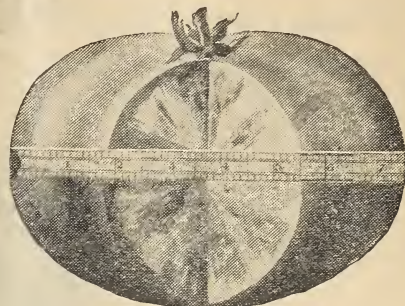
GRAND TOMATO TRIO

THE THREE MAJESTICS—One Packet Each of the Three Majestics, 25 Cents
One Dozen Each, Strong Plants, Three Majestics, Postpaid, \$1.00

MAJESTIC.—Is the largest, handsomest and finest quality tomato. When we first sent out this grand sort we were astonished at the reports received from customers. Undoubtedly the largest fruited of any, and the fruit is solid, weighing more than its size would indicate. The first fruits matured are somewhat rough, but later they are smooth and handsome, of rosy red color, its core blending into delicate shell-rose tints. Fruit is unusually solid, with very small seed cells. Flesh is tender, fine grained and rich, yet of mild, delicate flavor, being of the sub-acid class. Plant is of vigorous growth and many of our customers report specimens of 3 lbs. to 7 lbs. each. The largest were, of course, grown by special culture. There were also many reports of 120 to 160 lbs. of tomatoes grown on one plant. Pkt. 10c, oz. 50c, ¼ lb. \$1.50.

RED MAJESTIC.—This new sort appears to have all the good qualities as well as large size of the world-renowned Majestic, but is a bright cardinal red in color, and for this reason may be preferred. Bears the fruit well up from ground, out of reach of the chickens. Many growing both this and the Purple Majestic pronounce red variety superior. Pkt. 10c, oz. 50c, ¼ lb. \$1.50.

GOLDEN MAJESTIC, the \$1,800.00 Tomato.—A magnificent new variety which originated in northern Iowa, and we were so favorably impressed with it that we bought all the stock in existence and paid for same at the rate of \$1,800.00 per lb. It is the golden member of the great triumvirate, fully equal to its elder brothers in size, solidity, yield and flavor. Without hesitation, we pronounce it the grandest yellow tomato in existence. A trial will convince you of its superior qualities. Pkt. 15c, oz. 50c.

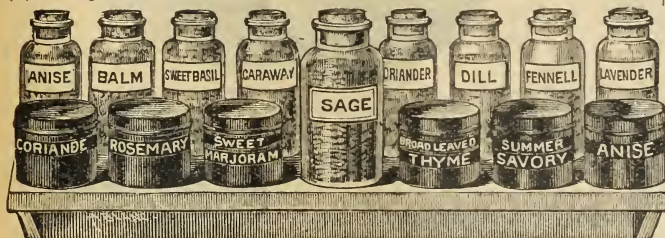


RED MAJESTIC



HERBS

In making up your assortment of seeds for the year don't neglect to order a few varieties of herbs. The chief point is to harvest them properly, which should be done on a dry day when not quite in full bloom, dried quickly and packed closely and entirely excluded from air. Those marked with an asterisk (*) are perennial.



ANISE.—Seeds of agreeable, aromatic taste. Pkt. 5c, oz. 10c.

BALM.—For making balm tea. Pkt. 5c; oz. 25c.

BASIL, SWEET.—For flavoring soups, stews, etc. Pkt. 5c; oz. 15c.

BORAGE.—Leaves used for flavoring. Pkt. 5c; oz. 15c.

***CARAWAY.**—Seeds are used for flavoring bread, etc. Pkt. 5c; oz. 10c.

***CATNIP, or Catmint.**—For seasoning. Pkt. 5c; oz. 30c.

CORIANDER.—Seeds used in confectionery. Pkt. 5c; oz. 10c; ¼ lb. 25c.

CASTOR OIL PLANT.—Seeds are pressed out to obtain oil. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c.

***CHAMOMILE.**—Largely used for medicinal purposes. Pkt. 10c.

***DANDELION.**—Grown for greens, also for medicine. Pkt. 5c; oz. 35c.

DILL.—Used in making dill pickles. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

***FENNEL, SWEET.**—Leaves used in sauces. Pkt. 5c; oz. 10c.

***HYSSOP.**—For asthma and catarrh. Pkt. 5c; oz. 20c.

***HOREHOUND.**—For seasoning and cough remedy. Pkt. 5c; oz. 20c.

***LAVENDER.**—Used as a perfume. Pkt. 10c; oz. 25c.

MARJORAM, SWEET.—For seasoning. Pkt. 5c; oz. 15c.

POPPY, or Maw.—Blue Seeded. Pkt. 5c; oz. 10c.

***ROSEMARY.**—Aromatic leaves used for seasoning. Pkt. 10c; oz. 60c.

SAFFRON.—Flowers used for coloring. Pkt. 5c; oz. 15c.

***SAGE.**—Much used for dressing. Pkt. 10c, oz. 40c, ¼ lb. \$1.25.

SUMMER SAVORY.—Used for flavoring. Pkt. 5c; oz. 20c.

***THYME.**—Leaves and young shoots used for seasoning. Pkt. 5c; oz. 40c.

***WORMWOOD.**—Used medicinally, and also for poultry. Per pkt. 5c; oz. 25c.

MIXED VARIETIES.—A mixture of all the above. A nice garden assortment. Pkt. 5c; oz. 20c; ¼ lb. 65c.

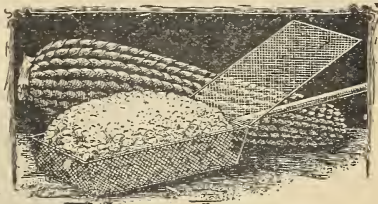
Collection for the Children's Garden

All children, and grownups, too, love melons, peanuts, pop corn and other good things to eat. Devote a small plot in the garden to the production of these items. Let the children have their own plot, do their own harvesting and see how much enjoyment they get from their work. They will take a great deal more interest in gardening for peanuts and pop corn, melons and fruits than they will in the growing of other vegetables. The ground cherry, melons and tomatoes may be eaten as they ripen while the chufas, peanuts and pop corn will be a delight during the winter. Refer to illustrations and descriptions in the catalogue.

1 Pkt. Yellow Ground Cherry, sweet and good; **1 pkt. Peach Tomato,** fine flavored and small size; **1 pkt. Tip Top Musk Melons,** large and fine quality; **1 oz. Sweetheart Water Melon,** as good as the name; **1 pkt. Australian Hulless Pop Corn,** the best pop corn variety; **1 oz. Chufas or Earth Almonds,** small sweet ground nuts of delicious flavor; **¼ lb. Spanish Peanuts,** can be grown in any good soil.

Seven items of the best, and in quantity sufficient amounting at regular value to 80 cents.

MAILED POST-PAID FOR ONLY 50 CENTS.



MUSHROOMS

The ease and certainty with which a crop of mushrooms can be grown and the astonishing success of so many who have taken up this new industry, induces us to call especial attention to the subject. We recommend mushroom spawn both for market garden and the private planter. Directions for culture sent on application. Per brick of 1 lb., by mail, 40c. By exp. or frt., not prepaid, 5 bricks \$1.25, 10 bricks \$2.25, 100 bricks \$20.00.



MUSHROOMS

THERE ARE NO TOMATOES IN THE WORLD SUPERIOR TO OUR THREE MAJESTICS. PROVE THEIR MERITS BY A TRIAL.

One ounce will sow 150 feet of drill.

TURNIP

Two pounds will sow an acre.

For early, sow in April in drills half an inch deep and twelve inches apart; thin to six inches apart in the drill. For main crop sow broadcast in July and August, and before a shower if possible.

EXTRA EARLY PURPLE TOP MILAN.—One of the earliest sorts in cultivation. Bulb very flat, medium size, quite smooth, with a bright purple top; grows compact and makes exceedingly small strap-leaved top. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

EARLY WHITE MODEL.—Much like the above, but is pure white all over, instead of having purple top. Quite popular with gardeners. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

EARLY SNOWBALL.—A globe-shaped, white-skinned turnip, very fine grained, firm and of delicate flavor. One of the best keeping of white fleshed sorts, very early and particularly adapted for market use. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c.

GOLDEN BALL, or Orange Jelly.—A beautiful bright yellow fleshed turnip of medium size and universally sweet and delicious flavor. Is one of the best keepers. Flesh extremely firm and solid. Brings good price on market. If you have never tried yellow turnips we advise you to plant some of the Golden Ball this year. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c.

PURPLE TOP GLOBE.—Similar to the Purple Top Strap Leaved except shape. The largest yielder of any turnip on the list and always brings top market price. Produces wonderful crops, as much as 1,000 bushels per acre frequently. A splendid item for winter stock feeding. Usually fed in connection with mixed grain feeds. It is so fine in quality that it is very desirable for table use. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c. 5 lbs., not prepaid, at 60c per pound.

PURPLE TOP STRAP LEAVED.—The standard for late planting, and we sell immense quantities of it. One of the best table and stock sorts on the market, fine grained and of mild flavor. Of good size, flat shape, pure white below with purplish red top. Good cropper, excellent keeper. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 65c, 5 lbs., not prepaid, at 55c per lb.

WHITE EGG.—A quick-growing, egg-shaped, perfectly smooth, pure

white variety with small top and rough leaves. The flesh is very sweet and mild, never having any rank, strong taste. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

MIXED TURNIPS.—All the table varieties mixed in equal proportions. For family use. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

RUTA BAGA

Also called "Swede" turnips. A splendid table vegetable, which is largely grown in the north for stock feeding. Many people consider them superior to turnips. Sow in June in drills 2 ft. apart, thin out to 8 inches.

IMPROVED AMERICAN.—Very solid, fine quality, good shape, smooth skin, small neck, keeps well. A choice strain of very best quality for table use or stock feeding. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

MONARCH.—This grand new and distinct form of ruta baga is, we believe, by far the most productive of all. Of tankard shape with very small neck, skin dark red above ground and yellow below. The flesh is rich yellow in color, fine grained and of good quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

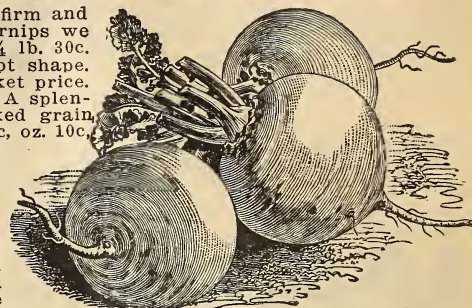
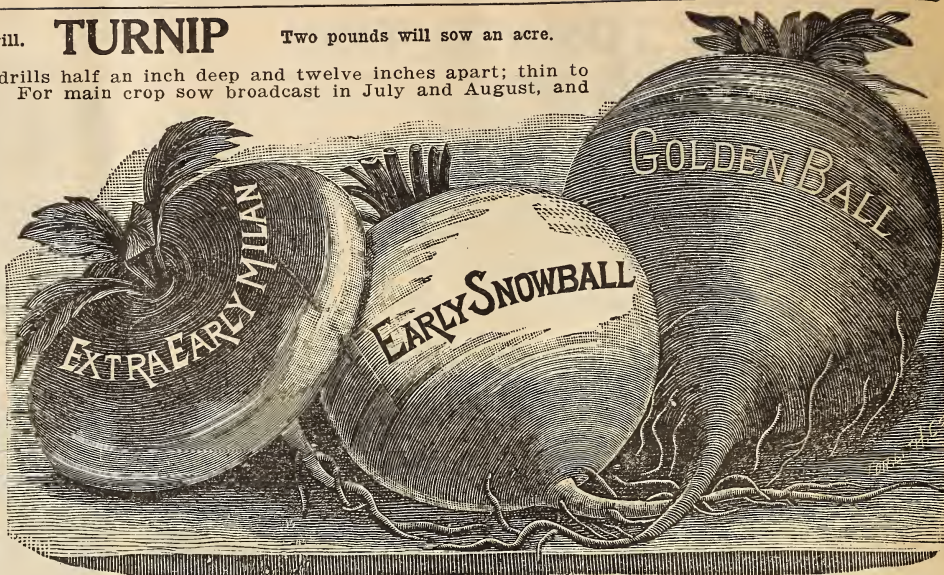
TOBACCO

BIG ORONOCO.—A favorite Virginia variety. Grows very large, broad leaves. A fine variety for dark plug wrappers and brings a good price in the market. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.50.

CONNECTICUT SEED LEAF.—This is a staple variety in all sections of the country and will grow successfully over a wide range of territory. Used for cigar fillers. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.50.

HAVANA.—The best known variety, as it is used very largely for cigar wrappers. Commands the highest market price when well grown and cured. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.50.

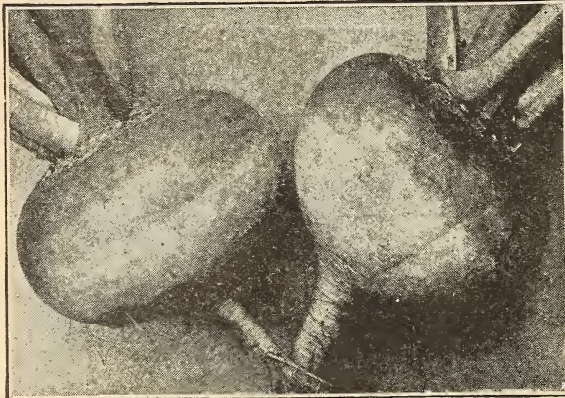
WHITE BURLEY.—A mild and sweet tobacco. It is the standard main crop variety in the tobacco sections as it is extra fine for manufacturing in nearly every manner that tobacco is used. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.50.



WHITE EGG.



PURPLE TOP STRAP LEAF

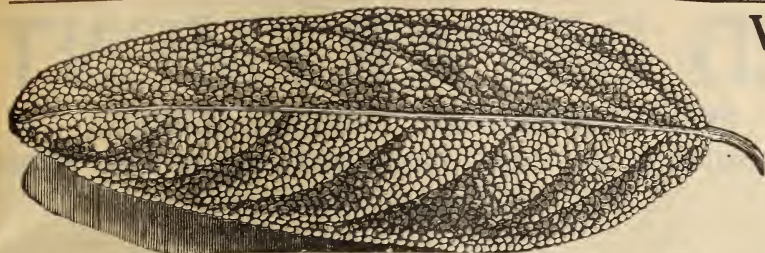


PURPLE TOP GLOBE



TOBACCO

GET THE SMALL GRAIN OFF EARLY AND SOW TURNIPS ON THE STUBBLE. TWO CROPS MAY BE SECURED IN THIS WAY.



HOLT'S MAMMOTH SAGE—AVERAGE SIZE LEAF

GARDEN PLANTS

Every garden should contain an assortment of these hardy plants and a few square feet will supply the family. Many believe if these well known remedies were kept and used more in families in place of so many drugs and patent medicines it would be better for the health of the people. Orders for these plants must amount to at least twenty-five cents. We pay the postage.

ARTEMISIA, or Broom.—A hardy plant sometimes called "Old Man." It has great medicinal value. The leaves have a pleasant odor and bitter taste. Use similar to wormwood. Each 15c; 3 for 40c.

CALAMUS—Plain Leaf.—(Acorus)—Also called "Sweet Flag." The roots are the part used and have a pleasant, aromatic taste. Grown in wet soil or beside ponds; also in dry places. Each 15c; doz. \$1.50.

CHIVES.—Perfectly hardy little perennials of the onion tribe, and are grown entirely for their tops, which are used wherever flavor of onion is required. Plant in any common garden soil and they will grow readily. The tops appear very early in spring and can be shorn throughout the season. Roots per bunch 15c; 3 for 40c; dozen \$1.25.

CATNIP, or Catmint.—A well known perennial herb having great medicinal value. Used largely for infants. Each 15c; 3 for 40c; dozen \$1.25.

HOP ROOTS.—Golden Cluster.—A fine variety of commercial hops. The vines are very ornamental when trained over rockeries, stumps, etc., with the added value of usefulness from the crop produced. Each 20c; 3 for 50c; dozen \$1.50.

LAVENDER.—A favorite plant with our grandmothers for perfuming wearing apparel, by distributing its sprays in the bureau drawers. Each 15c; 2 for 25c.

MONARDA DIDYMA.—Also called Scarlet Bergamot and Oswego Tea. Not only useful as an herb, but very ornamental with bright scarlet flowers. Each 15c; 3 for 40c; dozen \$1.25.

PEPPERMINT.—All children know and like the flavor of peppermint. It has a high medicinal value. Any pantry collection of dried herbs is incomplete if it does not contain some. Be sure that your order calls for at least a few plants. Each 10c; 3 for 25c; dozen 75c.

GENUINE PENNYROYAL.—Warm, pungent, of somewhat aromatic taste; used for medicinal purposes. Each 15c; 3 for 40c; dozen \$1.50.

ROSEMARY.—Used for perfume; for flavoring meats, stews, etc., and garnishing. Ea. 15c, 3 for 40c; doz. \$1.25.

HOLT'S MAMMOTH SAGE.—Great improvement on common sage. Plants very strong growing; leaves are very large and of unusual substance, strong in flavor and of superior quality. Each 15c; 3 for 40c; doz. \$1.50.

SPEARMINT.—Commonly called Mint and thousands of dollars' worth of it is sold annually in New York, Boston and other cities for flavoring salads, garnishing meat, etc. Each 15c; 3 for 40c; doz. \$1.25.

THYME.—A well known plant which is used for sauces and flavoring. Each 15c; 3 for 40c.

TANSY.—Used largely for its tonic, stomachic and other medicinal qualities. Each 15c; 3 for 40c; doz. \$1.25.

HORSE RADISH

Grow it in your own garden and grate fresh. Plant the sets small end down in rows 3 feet apart, about 12 inches apart in the row. It does best in rich, loose soil set slanting and covered about two to three inches. Doz. 25c, 100 for \$1.50, postpaid. By express, per 100 \$1.25, 1,000 for \$10.00.

GARLIC

Species of onion propagated by dividing the bulbs into small pieces, planting each one separately. It is quite pungent and is used for flavoring soups, stews, etc. Per lb. 50c, postpaid. By express, lb. 40c, 10 lbs. \$3.25.



GARLIC ROOTS

VEGETABLE PLANTS

Well grown and lightly packed to carry a long distance. They can be shipped fresh, well packed at the beds, on a day's notice. All are strong, transplanted plants unless otherwise stated. Plants quoted "by mail" are sent at our expense; "by express" the purchaser is to pay the express charges. No charge either for packing or boxes. Plants from either hotbed or cold frame are ready during April or May; outdoor grown during June and until the middle of July. 500 sold at 1,000 rate. Large orders for more than 1,000 plants should be placed at least 30 days in advance. No plants shipped C. O. D.

EARLY CABBAGE

Transplanted ready April 10.

Early Jersey Wakefield.

Washington Wakefield.

All-Head Early.

By mail postpaid, 25 for 35c, 100 for \$1.00. By express, not prepaid, 100 for 85c, 1,000 for \$7.50.

If preferred we can furnish seedling plants, not transplanted, by mail postpaid, 25 for 25c, 100 75c. By express, not prepaid, 100 for 60c, 1,000 for \$5.00.

LATE CABBAGE

Ready May 15; field grown.

Premium Flat Dutch.

Short Stem Drumhead.

Danish Ball Head.

By mail postpaid, 25 for 25c, 100 for 75c. By express, not prepaid, 100 for 60c, 1,000 for \$4.50.

CELERY

Transplanted ready May 1.

White Plume. Giant Pascal.

Golden Self Blanching.

By mail postpaid, dozen 20c, 100 for \$1.00. By express, not prepaid, 100 for 85c, 1,000 for \$7.50.

After June 15 we can furnish outdoor plants, not transplanted, by express, not prepaid, 100 for 60c, 1,000 for \$5.00.

CAULIFLOWER

Transplanted ready April 10.

Henderson's Snowball.

By mail, postpaid, doz. 25c, 100 for \$1.50. By express, not prepaid, 100 for \$1.25, 1,000 for \$10.00.

EGG PLANT.

Hotbed grown ready May 1.

New York Improved.

By mail, postpaid, dozen 35c, 100 for \$1.50. By express, not prepaid, 100 for \$1.25, 1,000 for \$10.00.

GROUND CHERRY.

Transplanted ready May 1.

Improved Yellow.

By mail, postpaid, dozen 25c, 100 for \$1.25. By express, not prepaid, 100 for \$1.00, 1,000 for \$8.00.

PEPPER.

Transplanted ready May 1.

Red Chili, Pimento, Ruby King.

By mail, postpaid, dozen 25c, 100 for \$1.25. By express, not prepaid, 100 for \$1.00, 1,000 for \$7.50.

TOMATO.

Transplanted ready May 1.

Sparks' Earliana. Beauty. Stone.

Dwarf Champion. Matchless.

By mail, postpaid, dozen 25c, 100 for \$1.25. By express, not prepaid, 100 for \$1.00, 1,000 for \$8.00.

Not transplanted, by express, not prepaid, 100 for 75c, 1,000 for \$5.00.

SPECIAL TOMATO

Transplanted plants only.

Superlative, Majestic, Red Majestic.

Yellow Majestic. Bonnie Best.

Golden Nugget. Ponderosa.

By mail, postpaid, doz. 40c, 100 \$2.00.

SWEET POTATO.

Ready May 1. Plants strong and vigorous, well rooted and hardy. Prices subject to change, depending on crop.

Yellow Jersey and Nancy Hall.

By mail, postpaid, 100 for 80c. By express, not prepaid, 300 for \$1.80, 1,000 for \$4.50.

FARM SEED DEPARTMENT

EXPERT PRODUCTION
EXPERT SUPERVISION
EXPERT SERVICE
THE SINCERE EFFORTS AND SPLENDID FACILITIES OF THE ENTIRE ESTABLISHMENT ARE AT YOUR SERVICE

We can help you if you will patronize our Farm Seed Department. We have the equipment necessary to grade up our Farm Seeds to the highest possible excellence. We can give you better stocks than you can get elsewhere. Every item offered in this list has been carefully grown to maintain purity. Every one has had expert treatment in our special machinery and appliances to make it better than when it came to us, and we do improve it. We have so much pride in our stocks that we are ready to be judged in any way you see fit. We will mail free samples of any item for inspection. We will ship you seed with the understanding that it must be satisfactory or it may be returned to us within fifteen days and the money paid for it will be refunded. You can inspect it and test it yourself. You can have it inspected and tested by any authority and we will cheerfully abide by the report. You know we could not afford to make such an offer if we were not sure of our ground.

Let us help you improve your crops, both in quality and quantity

We put time and money and painstaking care into the farm seed line. We have to. We must supply better seeds than you can get elsewhere if we are to have your trade. The present-day farmer raises good grains and if we are to surpass him in quality, we have to keep wide-awake and progressive. If our grass seeds are to excel in purity and vitality, it requires the closest scrutiny in buying and cleaning. We ask your trade solely upon our ability to please you.



WAREHOUSE, 208-210-212 SOUTH EIGHTH ST.,
WHERE ORDERS FOR FARM SEEDS ARE FILLED.

PRICES named in this department are always subject to important market changes. All quotations are net and are not subject to any premium or discount. Clover and grass seeds are constantly varying in value, and we issue a farm seed price list daily during the busy season. Please write for quotations, sending list of requirements when in need. Orders sent us will be given benefit of lowest prices on day order is received.

SHIPPING.—In this department everything that is quoted by the packet or pound is sent by mail, postpaid; all larger quantities, unless noted, are sent by express or freight at the expense of the purchaser. Prices named include bags and delivering to depot here.

ABOUT WARRANTING.—We thoroughly test all our seeds and nothing is sent out which we do not believe to be good in every respect. However, we give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned, and the money paid for same will be refunded. We know of no responsible seed firm in the world which guarantees seeds any further than this. Compare with other seed catalogues and you will find we are right.

It costs less than 50 cents
an acre to use our carefully
selected SEED CORN.

SEED CORN

Do you deem it wise to risk
doubtful corn when GOOD
SEED is so cheap?

GROWN, SELECTED, CURED, GRADED AND TESTED BY THE IOWA SEED COMPANY

SEED CORN FOR ALL DISTRICTS

Many authorities claim it is not wise to move corn more than fifty miles north of the point of production. The position may be accepted under certain conditions. We do not recommend that Reid's Dent or Profit corn be taken more than fifty miles north of Des Moines. The thermal lines, however, do not run exactly east and west but vary with the topography of the country. The same varieties will grow and ripen around Sioux City and in northeastern Nebraska as at Des Moines, while for northeastern Iowa and Wisconsin only the early varieties can be recommended. We have sold seed corn for many years and we know from experience that we can give you seed corn suitable for any locality. In our opinion it is more a matter of variety and type than of location. We give brief selection of varieties suited to the different corn districts north of Des Moines, and our recommendation is based on our thirty years' experience. The real corn belt does not extend more than two hundred miles north of Des Moines. Corn of small, flinty type only can be grown beyond that point to the north and these are not suited to the real corn country. In making descriptions of the varieties we grow, we have endeavored to make plain the range where each may be safely planted, but if there is any question about any variety being suited to your planting, write us and we will advise you honestly and to the best of our ability. We have provided some northern grown seed corn for northern planters if it is desired.

VARIETIES TO PLANT

In the Extreme North—Sanford's White Flint, Improved Yellow Flint, Pride of the North, Iowa Gold Mine.

Northern District—Pride of the North, Farmers' Reliance, Iowa Gold Mine, Lenocho's Homestead and the Flint varieties.

North Central District—Iowa Gold Mine, Iowa Silver Mine, Wenger's Gold Medal, Farmers' Reliance, Lenocho's Homestead and Flint varieties.

Central District—Profit, Iowa Silver Mine, Iowa Gold Mine, Farmers' Reliance, Wenger's Gold Medal, Reid's Yellow Dent, Lenocho's Homestead.

Southern District—All varieties.

WHY BUY YOUR SEED CORN OF US

We have pedigreed stock. The seed has been carefully sorted, graded and tested, and is sold with return privilege if not satisfactory. We give you 15 days to examine and test it, and if you conclude you do not want it, send it back and we will refund your money. You must raise more corn per acre to make it pay. Our seed corn will produce far more per acre than the average and every bushel added from the acres increases your margin. Under present conditions every acre must produce its utmost. Poor yields from run out seed will not pay. You are forced to get larger returns. Plant our selected seed corn.

ONE HUNDRED BUSHELS PER ACRE

If you do not raise one hundred bushels of corn per acre in a good season you have not realized the full returns possible from your field. There are hundreds of verified records of even greater yields than this. It is really not a difficult thing to do. The first requirement is extra care of the soil. The ordinary yield in Iowa is only about forty bushels and it would seem to the writer the farmer might well spend both time and money to increase the fertility of the soil to the point where production might and should be doubled. Even at the price of 75c per bushel, an added yield such as indicated above would readily cover any extra cost incurred in the application of fertilizer or the careful plowing and preparation of the fields. With the latest improved methods of corn growing you can increase your soil fertility rather than decrease it, during the season you produce the corn crop. By the planting of Soy Beans and by hogging down certain of the fields the land is left even richer than in the spring when the corn was planted. Of course the seasons will have much to do with the results secured and again the use of good seed is necessary. Also intelligent cultivation is a requirement if we are to secure the greatest possible returns. If, however, you make the most of your opportunities and use such seed corn as we can offer, planting three grains to the hill, you should have 10,000 stalks to the acre and at least one ear to each stalk. Don't be satisfied with less.

WE MAKE NO CHARGE FOR BAGS. THEY ARE FURNISHED FREE WITH SEED PURCHASES AT OUR CATALOGUE PRICES

IOWA SILVER MINE

WORLD-WIDE FAVORITE WHITE VARIETY

The Corn That Always Makes a Crop

GROWN EVERYWHERE

A change of location seems in no way to diminish yield or impair quality of the Iowa Silver Mine when grown from our seed. We have reports from customers in Egypt, South Africa, Australia, Central America, Mexico, and the West Indian Islands, as well as from all parts of the United States, praising in the highest terms the Iowa Silver Mine Corn produced from seed purchased of us. So widespread has been the dissemination of this variety, and so universal the success of the planters that without hesitation we recommend Iowa Silver Mine for all corn planters except possibly the extreme North.

It is thirty years since we purchased the original stock of Iowa Silver Mine for the sum of \$1,000 in cash. Each year the stock has been carefully selected to maintain all its superior qualities and we have grown it with care, giving it good soil and cultivation, and isolating it to prevent mixture or taint from any other variety. Our stock is of the original, purchased by us in 1895 and bred continuously since that time under the personal direction of our seed corn experts, who have thirty years' experience as their guide.

IT IS TRULY THOROUGH-BRED

The stalk grows to a height of about 7 or 8 feet and sets the ears about 3½ or 4 feet from the ground, just the right height for easy picking. One peculiarity which will be noticed in going over the fields is that there are no barren stalks; every one has an ear, many stalks have two or three good ears, and the originator says that has been characteristic every year that he has grown it. Type is very even. Ears measuring from 10 to 12 inches in length, and weighing 1½ lbs., are often found. The ears are very uniform in size and shape, with 16 to 20 straight rows (usually 18 rows) of deep, pure white kernels, set on small, white cob, and ears are well filled out over the tips. It is early, maturing in ninety-five days. The cob dries rapidly, so that it is ready for market earlier than any other large white field corn. Seventy pounds in the ear will make sixty-two shelled. It is adapted to a wider range of soil and climate than any other corn ever offered. It is in every way a distinct type of corn, hardy, and a wonderful resister of drouth.

HERE IS A PART OF ITS RECORD

Everywhere the Iowa Silver Mine captures the prizes over all other varieties. At one fair ten of the largest ears took first prize, ten of the smaller ears took second prize. Afterwards the same ten large ears took sweepstakes over all varieties, both white and yellow, making a total of \$95.00 in prizes taken at one fair by twenty ears of the Iowa Silver Mine Corn. It captured the big prize offered by us in 1896, for the largest crop, against all other kinds of any color, yielding 215 bushels. At the Illinois State Fair it took first premium for the best bushel of corn, any color or sort; first for best white corn in the state, grand sweepstakes for best corn, any color, competition open to the world. In 1899, the Illinois State Agricultural Society offered three large prizes for the largest crop grown on one acre, and Iowa Silver Mine captured all three with crops of 196, 176 and 154 bu. per acre. No other corn, any color, can compare with it for productiveness.

Read the Astonishing Record of Our Own Prize Contest. It produced 215 bu. per acre in Scott county, Iowa, the crop being actually inspected by a member of our firm. It yielded 211 bu. per acre in Indiana; 201 bu. in Arkansas; 178 bu. in Illinois; 145 bu. in Ohio; 137 bu. per acre in Texas.

PRICES: For high grade extra select seed corn postpaid or by express prepaid: Pkt. 5c, lb. 30c, 3 lbs. 75c, 7 lbs. (will plant one acre) \$1.25. By freight or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85, 10 bu. or more at \$2.75 per bushel.

THE PROFIT CORN

OUR OLDEST PEDIGREED VARIETY

A Large, Heavy Ear on a Large Stalk

A POPULAR VARIETY

This variety will produce 100 bushels of ear corn per acre. In addition to a heavy yield of grain, it will also produce an immense amount of fodder or stalks for ensilage. If you have a silo, there is no corn in the entire list that will approach it in value to you. We believe that every farmer nowadays appreciates the value of the silo and we know that they are building thousands of them every year. The farmers appreciate the saving to them by the use of these buildings, but if you plant small corn, or the ordinary types, from which to fill the silo, you do not secure the full returns from your fields. With the expense incurred, you have a right to expect the greatest returns for the money invested. This can only be secured

where you produce the largest quantity of feed per acre that it is possible to raise upon the land. We offer you the Profit Corn to meet this need.

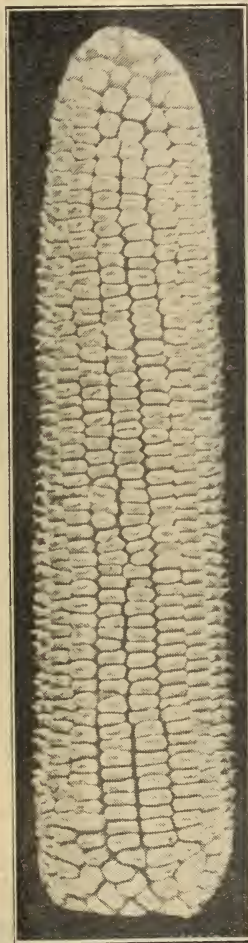
Corn for the silo does not necessarily have to be fully matured like it does if you are to crib it on the ear. If you are in the northern part of Iowa, or the Corn Belt, you can raise Profit Corn for silage, but we would not advise you to plant it expecting to crib it in the ordinary manner. It will mature, however, wherever Reid's Dent can be successfully grown and we think it will yield more corn, and we know it will produce more stalk than that well known variety. If you have a shredder, or if you use corn for fodder in any way, you will find no variety as valuable as the Profit. It produces big ears on big stalks. It contains the largest amount of sugar and starch in each plant, and matures a big crop. You can raise it profitably, either for the market or for feeding, and we recommend it without reserve to friends who want to secure the most profit.

A GENERAL PURPOSE CORN

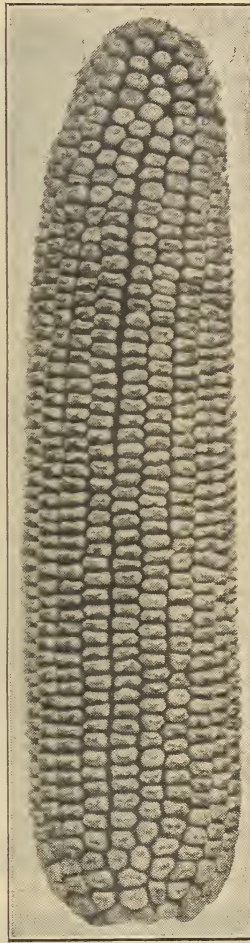
The purpose of the originator was to fix a type of field corn for profit, superior to any in cultivation, and profit in corn growing, as we understand it, means the largest crop of shelled corn (not cobs), maturing in a reasonably short time, and of the best quality. Ears of large size, the grain is very deep, cob small for size of ear and dries out rapidly, thus making it a sure cropper. Corn is solid on the cob, the kernels appearing driven in, and it shells out immensely.

This variety does not mature so quickly as either Gold Mine or Silver Mine, requiring 110 days, and we do not recommend it for planting in the extreme northern districts of Iowa. If a crop of grain is desired, or if the corn is to be sold in the ear, but we think it is the best corn for silage in the northern districts, as it will mature sufficiently for that purpose. It will do well in the two central and southern districts for all purposes, and we believe it will produce more bushels of shelled corn than any variety with which we are acquainted.

PRICES: Pkt. 5c, lb. 25c, 3 lbs. 75c, 7 lbs. (will plant one acre), \$1.25 by mail or express prepaid. By freight or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. for \$27.50.

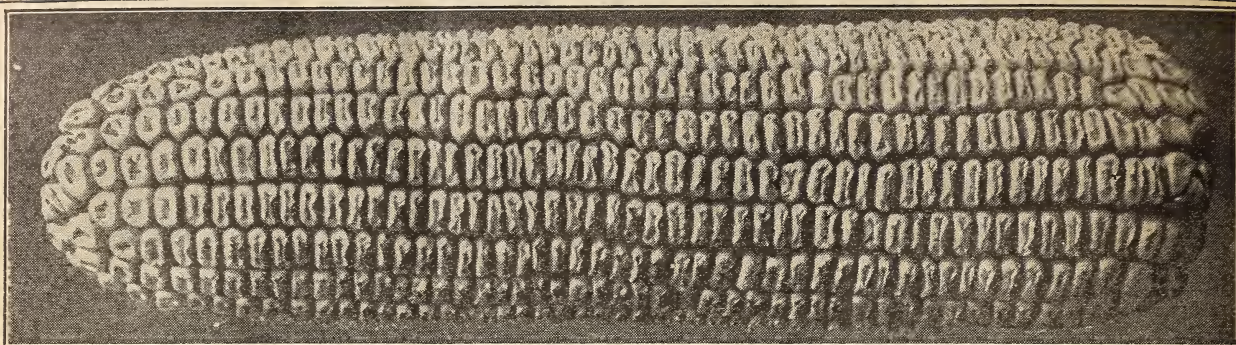


IOWA SILVER MINE



THE PROFIT

OUR STOCK OF SILVER MINE CORN IS NOT ONLY PEDIGREED, BUT HAS BEEN REGENERATED TO INCREASE THE YIELD



SPECIMEN EAR OF IOWA GOLD MINE CORN

IOWA GOLD MINE

Deepest Grained, Purest Yellow Corn in Existence. The Feeder's Favorite Variety.

It ripens in ninety-five days and never fails to mature. It does not mold or spoil if cribbed at proper time and is the most certain to succeed in adverse seasons. It is all corn and corn of extra quality. We have sold it for thirty years and each season we have a higher opinion of its value.

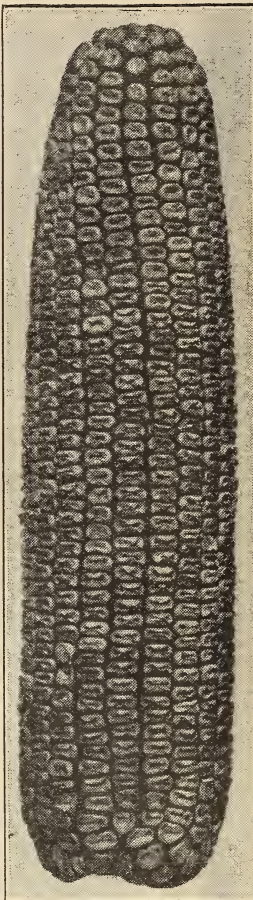
ONLY SIX POUNDS OF COBS

Seventy pounds of Iowa Gold Mine on the ear will make 62 to 63 lbs. of shelled corn. This is the smallest proportion of cob of any variety. We have shelled selected ears of this corn which produced only 5 lbs. of cob per bushel. This is an unparalleled record. It cannot be equalled by any other corn in the world. One carload lot of 400 bushels of Iowa Gold Mine corn was carefully weighed, and after shelling was reweighed and there was just 455 bushels. Just think of it—a gain of 14 bushels to the 100. You can see from these figures that if you are to sell this corn it should be either sold as shelled corn, or a premium demanded for the corn in the ear. You cannot afford to sell 70 lbs. of ear corn of the Iowa Gold Mine for a bushel as you are actually giving the buyer six or seven extra pounds, worth five cents at ordinary market value.

GRAIN IS OF SUPERIOR QUALITY

You can readily understand its exceeding great value to the feeder. The figures given above demonstrate that there is very little waste, but they do not show the features which are so much superior to other kinds—the soft grain and the oil and sugar content that make it so readily digestible by the stock. There is really ten per cent more feeding value in Iowa Gold Mine pound for pound than in the ordinary sorts, and an acre of Gold Mine producing 60 bushels is worth as much to the feeder as a 70-bushel yield of any other variety.

PRICES: Pkt. 5c, lb. 30c, 3 lbs. 75c, 7 lbs. (will plant one acre) \$1.25, by mail or express prepaid. By freight or express not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. \$27.50.



FARMER'S RELIANCE

FARMERS' RELIANCE

The Earliest Large Corn; the Largest Early Corn; a Fine Variety for Northern Planters.

A grand variety introduced by us. Of very strong, vigorous character, growing more rapidly than any other variety from the day it is planted, it really surprises one with the speed with which it hurries on to make ears. The stalks usually have from nine to eleven blades, while most ordinary corn has thirteen blades. Leaves quite broad, of dark, emerald green, healthy color. Planted as late as June 26th has yielded a splendid crop. We claim it will mature in ninety days. Ears are larger, smoother, and easier to handle than Pride of the North and will yield one-third more under the same conditions. Seventy pounds of ears will make sixty pounds of shelled corn. Fully 40 per cent of stalks produce two good ears.

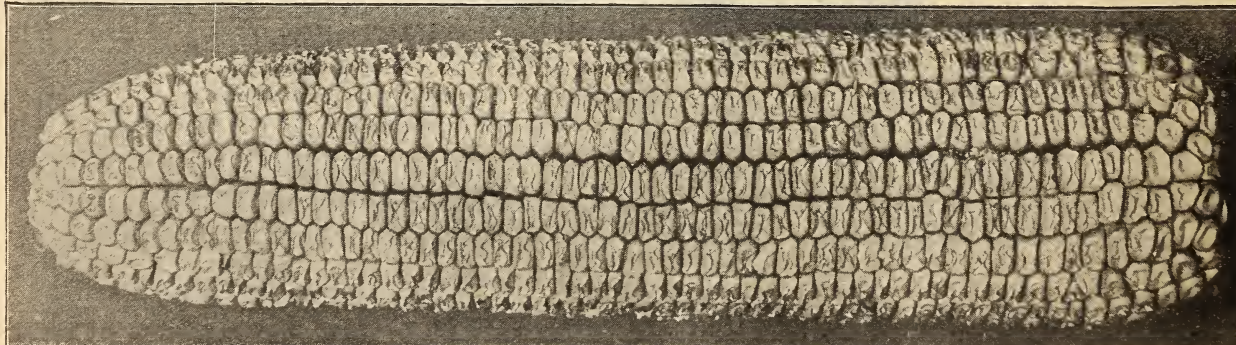
PRICES: Per lb. 30c, 3 lbs. 75c, 7 lbs. (will plant one acre) \$1.25, postpaid. By freight or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. for \$26.00.

WENGER'S GOLD MEDAL

A New Thoroughbred Variety. A Splendid Type for Main Crop in North Central Iowa.

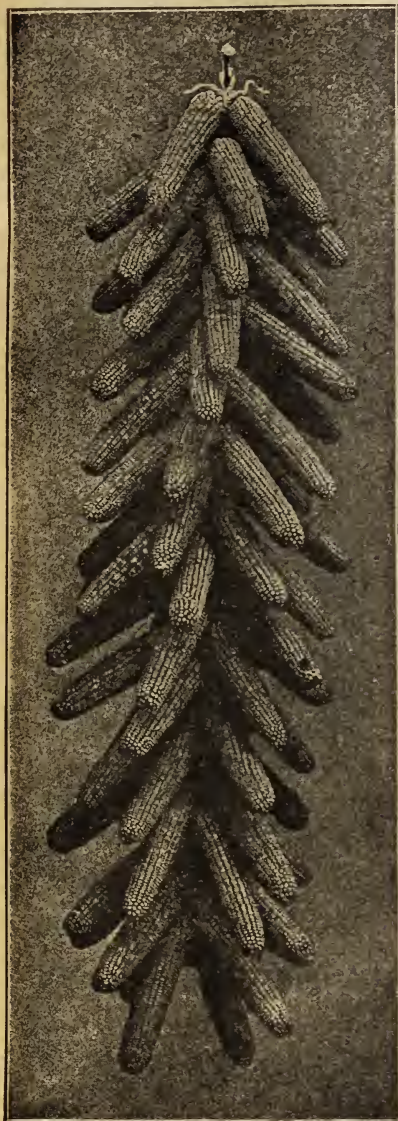
This new variety is the result of cross breeding made by Mr. S. B. Wenger of South English, Keokuk county, Iowa, and which has been carried on and perfected during the last fifteen years. The foundation for the variety is Golden West crossed upon the Prosperity type of Reid's Dent. The type is thoroughly fixed and it will produce a crop far more uniform than is generally the case and which is only to be found with corn of long pedigree and of careful handling. In offering this variety to the public we believe we are helping the corn growers of the northern district to improve the quality and the yield of the corn in this part of our state. This new corn can be carried seventy-five miles north of Des Moines, and we think it will give greater yields and sounder corn than any other large variety.

PRICES: Pkt. 5c, lb. 30c, 3 lbs. 75c, 7 lbs. (will plant one acre) \$1.25, by mail or express, prepaid. By freight or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. \$27.50.



SPECIMEN EAR WENGER'S GOLD MEDAL CORN

SEED FOR ONE ACRE OF ANY OF OUR CHOICE VARIETIES FOR \$1.25. TWO BUSHELS ADDED TO YIELD PAYS COST OF SEED



REID'S YELLOW DENT CORN

Last spring I got some Reid's Yellow Dent seed corn and will say it is as fine as any corn I ever saw. I don't think it could be beat in the state.—A. A. Westbrook, Ira, Iowa.

REID'S YELLOW DENT

THOROUGHbred, PEDIGREED, CAREFULLY SELECTED STOCK
A Splendid Strain of Sustained Purity and Excellence

Most farmers know the Reid's Dent Corn, and it is very popular because of the large, smooth, symmetrical ears, which are always uniform and make it one of the most attractive varieties for market selling. Because of its handsome appearance it is generally accepted as the show standard, and because of show record is widely known and generally distributed.

Our particular strain is far superior to the common strains found on most farms. Our original stock was direct from Mr. Reid, the introducer, and we have grown it continuously for many years. We have bred it to retain the purity of type and heavy yield. You can safely order Reid's Dent of us and be assured you will get superior stock of this superior sort.

It is grown at Altoona. The soil is heavy black loam, the land is high, in fact, it is one of the highest points above sea level in the entire state. Our experience proves that seed corn produced in that locality will mature anywhere in Iowa. It is just as though grown in the northwest part of our state as regards latitude, and an advantage over that section because the soil is heavier and matures the corn more slowly. It is because of this location that our seed corn will successfully grow far to the north and is superior to most of the seed corn produced in other sections of the state.

If you can grow Reid's Dent, buy your seed from us. We will make good our claims of superiority by increased yield of splendid large corn at harvest time.

PRICES: Pkt. 5c, lb. 30c, 3 lbs. 75c, 7 lbs. (will plant one acre) \$1.25, by mail or express, prepaid. By freight or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. for \$27.50.

PRIDE OF THE NORTH

THE EARLIEST VARIETY OF YELLOW DENT CORN
Matures Sound and Dry in Ninety Days

Originated with A. L. Goddard, of Kossuth county, Iowa, near Minnesota line, over twenty-five years ago. The ears are 7 to 8 inches long, with small cob and kernel; 70 lbs. of ears will make 62 lbs. of shelled corn; color bright orange, very uniform. Will ripen in 90 days and matures in this latitude when planted in June. Good soil is capable of producing four or five good stalks to the hill and many of the stalks have two ears each. The grain is very long and sets closely on the cob. It is extremely rich, and goes farther in flesh production than ordinary sorts. Splendid for "hogging down." By this method you do not have the labor of husking. It is the dependence of the man in a pinch. If for any reason you can not plant at proper time, Pride of the North will make a crop in 30 days' less time than the large eared sorts. In some years it has made a crop planted after July 4th. It insures a corn crop against floods or storms or unfavorable conditions in May or early June.

PRICES: Pkt. 5c, lb. 30c, 3 lbs. 75c, 7 lbs. (will plant one acre) \$1.25, prepaid. By mail or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. for \$27.50.



PRIDE OF THE NORTH

JUST A FEW GOOD REPORTS ABOUT OUR CORN

I have seven acres of Farmers' Reliance that will make 80 or 90 bushels per acre. It is by far the best corn I know of around here. It was planted June 14th.—Geo. W. Brown, Ross County, Ohio.

Lenocher's Homestead is the best corn I ever fed. Earliest variety in these parts.—J. Abrie, Doniphan County, Kansas.

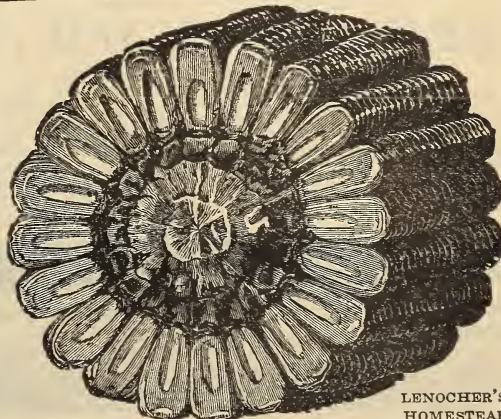
LENOCHER'S HOMESTEAD

THE GREATEST RED CORN EVER PRODUCED

A Hundred Bushels Per Acre Variety

This is the corn that won the Iowa Homestead prize of \$100 for the best three acres of corn grown under ordinary methods. The crop produced yielded 345 bushels on the three acres on the farm of Mr. G. F. Lenochoer, a practical farmer and feeder of Dallas county, Iowa. We made arrangements with Mr. Lenochoer to introduce the corn to the public and gave it the name of Lenochoer's Homestead, and have offered it for twenty years. The color is a rich dark red with occasional light caps; grain deep and hackled; ear somewhat above the average with small cob which dries out rapidly so that it is not likely to be caught by frost. May be grown anywhere that Iowa Silver Mine matures. It is a splendid silage corn and produces good crops in unfavorable seasons when other corns will hardly make nubbins. There is no prejudice on the part of the live stock or the silo against red corn and if you plant Lenochoer's Homestead the great yield per acre will overcome any prejudice you may have.

PRICES: Pkt. 5c, lb. 30c, 3 lbs. 75c, 7 lbs. (will plant one acre) \$1.25, by mail or express, prepaid. By freight or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. for \$27.50.

LENOCHER'S
HOMESTEAD

WE CLAIM TO SUPPLY THE BEST SEED CORN. WE WILL MAKE GOOD THIS CLAIM AT HARVEST TIME.

EXTRA EARLY FLINT CORN

Ready for Use a Month Earlier Than Ordinary Varieties

The great value of the Flint varieties of corn is in the production of early feed for live stock. The matured grain is hard and cattle cannot manage it very well but the pigs will thrive upon it as well as upon the dent variety. However, the best use for these is the production of quick food for your stock, because it is sufficiently matured for feeding far in advance of the dent varieties.

SANFORD'S EARLY WHITE FLINT

This standard variety is considered the best flint corn on the market. The ears are of unusual length, 12 to 15 inches, and handsome shape, flinty white color. Plants of sturdy, vigorous growth; leaves are very broad and succulent, and it is therefore of great value for fodder and ensilage, as well as for a grain crop. Stalks usually bear two or three long ears. Pkt. 5c, lb. 30c, 3 lbs. 75c, postpaid. By freight or express, not prepaid, pk. \$1.50, bu. \$4.50, 2 bu. or more at \$4.40 per bu.

IMPROVED YELLOW FLINT

An eight-rowed yellow flint variety with ears from 10 to 15 inches long, 1½ to 2½ inches in diameter, and well filled out to the extreme end of cob. The cob is small and the kernel large and broad; ripens in 75 to 85 days. Excellent for ensilage and is often used here for replanting. Pkt. 5c, lb. 30c, 3 lbs. 75c, postpaid. By freight or express, not prepaid, pk. \$1.50, bu. \$4.50, 2 bu. or more at \$4.40 per bu.

EVERGREEN SWEET FODDER CORN

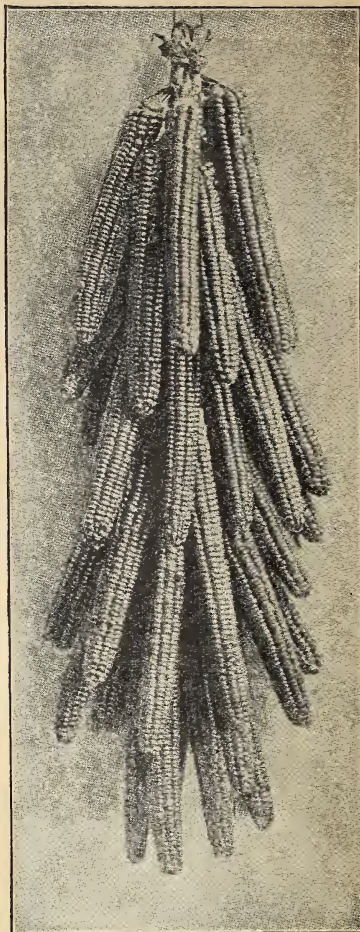
Superior to Field Corn in Feeding Value

Last year we grew a splendid crop, both in quality and quantity, and are therefore enabled to offer it at a low price. Our seed is from pedigree stocks selected for sugar content, and is far superior to ordinary sweet corn sold for fodder purposes. The best ears are selected for Stowell's Evergreen garden corn while the remainder of the crop is made into this fodder stock. It is worth double the value of ordinary fodder corn for feeding. We consider it one of the most valuable fodder plants in existence, and stock farmers should all devote some land to it. The stalks are sweet, juicy, rich, tender and very nutritious. On a strong soil it will grow 10 to 12 feet high and produce almost an incredible amount of fodder, which when well cured is equal to hay, besides being cheaper. It is claimed by dairy farmers this fodder will increase the milk and cream production greatly and keep the animals in the best condition. It has the further merit of being so sweet and palatable that cattle eat every part of the stalk and leaves. As a green fodder for cutting in the summer, one acre is worth eight acres of ordinary pasture. Of high value also for "hogging down" in the fall. Plant thick in drills, using a peck of seed per acre; or broadcast at rate of 2 bu. per acre. By freight or express, not prepaid, pk. \$1.50, bu. (50 lbs.) \$5.00, 2 bu. or more at \$4.85 per bu.

Cut Evergreen Sweet Fodder Corn in roasting ear stage for pigs and milk cows.



EVERGREEN FODDER CORN



IMPROVED YELLOW FLINT CORN

EXPERIMENT CORN COLLECTION

For those of our customers who would like to compare our varieties of corn in a practical way, we offer a collection composed of 1 lb. each of the following seven varieties: The Profit, Wenger's Gold Medal, Iowa Silver Mine, Iowa Gold Mine, Reid's Yellow Dent, Lenoher's Homestead, Farmers' Reliance. By express, not prepaid, for \$1.00; or, if you want them prepaid, send postage, see page 1.

SOME UNIQUE AND NOVEL VARIETIES OF CORN

PRIMITIVE OR POD CORN

It is from this wild variety that all of our civilized sorts have sprung. The ears are of fair size and each individual kernel or grain is covered with a husk and all is enclosed in an outer husk like common corn. In some of the wild and uncultivated parts of Mexico, the primitive or natural corn can still be found growing wild. It is quite curious and valuable for exhibition purposes and attracts great attention wherever seen. Pkt. 10c. Specimen ear 40c, postpaid.



PRIMITIVE OR POD CORN

NEW CENTURY WONDER

A wonderful variety from South America, different in many respects from other sorts. Instead of growing like ordinary corn, one stalk to each kernel planted, it stools like winter wheat, producing 10 to 20 stalks from each seed. Often 3 to 7 ears to stalk, being 8 to 10 in. long, and of most clean, snow-white color. Of excellent quality for the table like sweet corn; when dry and ground makes the cleanest, finest, whitest meal. An improvement on Brazilian flour corn, being acclimated by growing in the north. Plant early as it requires the whole season to mature in this latitude. Requires 3 lbs. of seed per acre. Pkt. 10c, ¼ lb. 15c, lb. 40c. Write for price in quantity.

SQUAW CORN

The old fashioned squaw corn shows blue, white, and frequently various other colored grains on the same ear. It is of flinty type and is quite an oddity, and is very attractive as a part of the fair or show exhibit. Matures extra early and will be ready in time for the earliest exhibitions. Grown as a field crop in sections where other types will not mature. Pkt. 10c, lb. 25c, postpaid.

BY ALL MEANS INCLUDE THESE NOVEL CORNS IN YOUR ORDER AND HAVE SOMETHING FOR THE FAIRS AND CORN SHOWS.



SEED WHEAT

We believe it will pay to raise wheat this year. There is no surplus, and fall planting was not as extensive as usual.

MARQUIS

Ten Days Earlier Than Blue Stem or Red Fife and Produces Five to Ten More Bushels per Acre

This is the wheat that won the \$1,000 prize at New York Agricultural Exhibition against all exhibitors, representing every wheat growing section of the western hemisphere. Superior to any known variety in milling and baking qualities. It has recorded a yield of fifty bushels per acre. Originated at the Experimental Station at Ottawa, Canada. We have found it the best beardless variety for Iowa planters. We grow our own stock in Iowa because we find that acclimated seed is better for our friends than stock secured from the North. Grows stiff, strong straw of medium height, has round, dark red kernels and matures two weeks earlier than the old standard blue stem types. Popular because free from beards and not so hard to handle at harvest. Per lb. 25c, 3 lbs. 60c, postpaid. By freight, per bu. \$2.25. Ask for price in quantity.

EARLY JAVA

The Early Bearded Sort That is so Prolific and Gives Best Returns in the Corn Belt.

This is a bearded variety which for many years past has given far better satisfaction in central Iowa than any other bearded variety. The farmers are delighted with it. It is a variety of spring wheat, about ten days earlier than the Velvet Chaff or other standard sorts and thus escapes the extreme hot weather so injurious to small grain. It is usually ready for harvest as early as winter wheat, and therefore desirable to sow on land where winter wheat has partially failed. A good crop can this way be secured from fields which would otherwise be unprofitable. Per lb. 25c, 3 lbs. 60c, postpaid. By freight, per bu. \$2.25. Ask for price in quantity.

MACARONI OR DURUM WHEAT

It will yield more bushels per acre than ordinary varieties. Our grower secured a yield of twenty-nine bushels per acre and we recommend it as a profitable sort. It is always a sure crop. It grows very strong and vigorous and gives a good return on poor land. The grains are hardy, glossy, often translucent, large and plump and really beautiful. It seems to be freer from smut or rust than ordinary varieties. Sow one and one-half bushels per acre. Per lb. 25c, 3 lbs. 60c, postpaid. By freight, per bu. \$2.25. Ask for price in quantity.

WINTER WHEAT

Winter wheat is generally considered most profitable for Iowa. We issue a descriptive price list of winter wheat about August 1st. Write for it then.

IOWA 404.—This is a strain of Turkey Red variety developed at the Agricultural College at Ames, Iowa, and they offer it as the hardiest and most prolific sort among the many which have been tested on the trial plots of the college farm.

KANRED.—Well known Russian variety, sent out by the Kansas Agricultural College. Immensely popular with our patrons because of hardiness and heavy yields. Lb. 25c, 3 lbs. 60c, postpaid.

TURKISH RED.—The great standard winter variety so generally recommended by all authorities. Lb. 25c, 3 lbs. 60c, postpaid. Ask for prices in quantity.

DEFIANCE.—Our greatly improved strain of Turkish Red which has a record of over 59 bu. per acre in Iowa. Has never failed to produce a profitable crop.

PRICES

of all items on this page are subject to MARKET CHANGES

SEED OATS

Buy Iowa Grown Seed. The Best Oats in the World Are Grown in Iowa

For the farmer who wants to sow grass seeds with oats we recommend the White Kherson (Iowa 103) on ordinary soil or the Richland (Iowa 105) on strong soil. These do not make such rank growth of straw as other sorts and will not lodge under ordinary conditions. The young grass will not be destroyed when storms come that will beat down the larger kinds.

THE IOGREN OAT

This is a new variety sent out by the Ames College for propagation. There are no other houses in position to offer it. The Iogren is a thoroughbred from Green Russian and is a great improvement over that well known popular sort. Our stock is limited and we can only sell 2½ bu. (for one acre) to a customer. Price, 2½ bu. bag, \$5.00.

THE IOWAR OAT

Prof. Burnett's latest introduction at Ames College. The professor says it is three days later, three inches taller and yields three bushels per acre more than White Kherson (Iowa 103). The grain is good size, thin hull and good color, so it is popular for market. We recommend it to our farmers. By freight, per bu. \$1.00, 2½ bu. bag \$2.25. See farm seed price list for quantity price.

WHITE KHERSON (Iowa 103)

A Production from Ames College

Bred by Prof. L. C. Burnett, agronomist at the Iowa Agricultural College, and introduced by us. Prof. Burnett gave it the designation of "Iowa 103" and we gave it a trade name as "White Kherson" because we believed that numbers might become confusing. It is without doubt the most popular variety in our state. It is very early, and while the grain is not very large, it is plump and heavy, with thin hull. It seems to be free from blight or rust. The straw is strong and stands up well on good soil. Our seed is pedigreed stock grown continuously by us since first given us by Prof. Burnett, and it has always been given great care in seed selection and in grading. We know, therefore, that we have better stock than you can buy from ordinary sources. By freight, per bu. \$1.00, 2½ bu. bag \$2.25. See farm seed price list for price in quantity.

THE RICHLAND OAT (Iowa 105)

The Best Variety for Rich, Strong Land

Another variety from the Agricultural College bred by Prof. L. C. Burnett and it was sent out as the best for strong, rich ground, where the ordinary varieties of oats would lodge or make excess growth of plant rather than large crops of grain. It does not grow very tall, but has stiff, strong straw and it will stand up under adverse conditions better than any other variety known. It is very early and produces wonderful crops and competes with the White Kherson in quantity produced. The grains are medium sized, light yellow in color, plump and heavy. By freight, per bu. \$1.00, 2½ bu. bag \$2.25. See farm seed price list for price in quantity.

SILVER MINE

The Popular Main Crop Variety

Standard for main crop in Iowa. Has established a reputation of yielding immense crops of 100 bushels per acre in favorable years. Grain is large, plump and heavy with a reasonable thin hull. Quite hardy, vigorous, stands well and shows little tendency to rust or lodge unless soil is extra rich. Has splendid record in comparative tests. Will bring top price in market. By freight, per bu. \$1.00, 2½ bu. bag \$2.25. See farm seed price list for quantity price.

OUR CUSTOMERS ARE AT NO EXTRA EXPENSE FOR BAGS TO HOLD SEED GRAIN AS THEY ARE FURNISHED FREE OF COST.



SEED BARLEY

MANDSCHEURI.—Improved strain of standard six-row bearded barley. The standard market variety by which all are graded and therefore the most popular bearded sort. It is an early variety, very strong, stiff straw, stands up and stools well. It bears large well-filled heads of plump grain. Barley is an important food grain for live stock. It can be grown at less cost than any other grain than corn, and it should form part of the ration for all stock. By freight, per bu. \$1.75. See farm seed price list for quantity price.

ODERBRUCKER.—First introduced into the United States from the Agricultural Experiment Station at Guelph, Ontario, Canada. Bred and disseminated at the Wisconsin Agricultural College by Prof. R. A. Moore, who claims it is the greatest barley in this country for feeding or malting purposes. It is bearded, and in growth similar to Mandscheuri, but the straw is somewhat stronger and stiffer, and will stand upon the richest ground. Will not rust and is free from smut. Per lb. 25c, 3 lbs. 60c, postpaid. By freight, per bu. \$1.75. See farm seed price list for quantity price.

SPELT, OR EMMER

This new grain was first introduced into this country by our house several years ago, has proven of great value. It has become a staple crop in all sections of the West and Northwest. It is grown and handled in the same manner as barley. It should be threshed for feeding as the process breaks up the beards and straw so that the animals eat readily. It is a splendid feeding grain, in our opinion second to corn. Records of 75 to 100 bushels of grain and 3 to 5 tons of straw are reported. Its value lies in its hardness, great yields, and feeding value. Use 50 to 70 lbs of seed per acre. Lb. 25c, 3 lbs. 60c, postpaid. By freight, per bu. \$1.75. See farm seed price list for quantity price.

SUNFLOWER

The very best poultry feed for winter. Drill in rows, cut with a corn harvester, dry thoroughly; let fowls do harvesting.

MAMMOTH RUSSIAN.—Extremely large sunflower. Large pkt. 5c, lb. 35c, 3 lbs. 90c, postpaid. By freight or express, not prepaid, 10 lbs. \$2.00, bu. (25 lbs.) \$5.00.

WHITE BEAUTY.—Equal in size to Mammoth Russian. Prices same as above.

BROOM CORN

EVERGREEN.—The brush is noted for fine quality, good length, and handsome appearance. Lb. 25c, 3 lbs. 65c, postpaid. See farm seed price list.

DWARF.—Popular in some sections, matures late. Lb. 25c, 3 lbs. 65c, postpaid. Send for farm seed price list for value on quantity.

SEED RYE

MAMMOTH SPRING RYE.—This is quite different from the winter rye and is highly valued wherever known. It is not only more productive but the grain is of finer quality and it can be successfully grown in any latitude. The straw is of special value as it stands six or eight feet high, being better than that of winter rye and producing nearly four times as much straw as oats. Produces 30 to 40 bushels of grain to the acre. As it does not stool like winter rye, not less than two bushels to the acre should be sown. There is always a demand for first quality rye straw. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight, per bu. \$2.25. See farm seed price list for quantity prices.

MONSTER WINTER.—We consider Winter Rye one of the most important of all farm crops. It is usually sown in the fall. If sown early in the spring it makes an early and abundant pasture, but makes no grain crop. We can supply in the fall this and other varieties of rye for grain production, and will be glad to quote the different kinds about August first. By freight, per bu. \$1.75. See farm seed price list for current values in quantity.



BUCKWHEAT

Buckwheat is a valuable crop. Generally sown in July and fills up vacant plots at a time when all other planting is past. Can be sown after crop of winter wheat or rye and make a second crop. Also largely used as a winter cover-crop in orchards and nurseries. Use about one-half bushel seed per acre.

JAPANESE.—A week earlier than Silver Hull and yields more. Flour is equal to any other buckwheat, while it is more productive than any other, and succeeds well far north. The kernels are quite large, but the straw is heavier and branches more. Lb. 25c, 3 lbs. 60c, postpaid. By freight, per bu. \$2.50. See farm seed price list for current prices.

SILVER HULL.—Very good, popular variety. Grain is light gray color, rounder than the common variety, has a thinner husk earlier, yield more. It is preferred by the mills grinding buckwheat flour as it makes a smaller proportion of hull to flour than other sorts. Lb. 25c, 3 lbs. 60c, postpaid. By freight, per bu. \$2.50. See farm seed price list for current values. Write for price.

SEED FLAX

It will pay you to sow nice, pure, high-grade flax seed. It must be cleaned. Our seed is thoroughly re-cleaned, free from mustard or any other seed and is as good as can be purchased anywhere. Do not buy flax seed on open market. It is generally full of weed seed. One of the most profitable of crops. Per lb. 20c, 3 lbs. 50c, postpaid. By freight, per bu. \$3.50. Market changes. See farm seed list for prices

PRICES
of all items
on this page
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MARKET
CHANGES

ONE CUSTOMER GOT 35 BUSHELS PER ACRE FROM THIRTY ACRES OF WHEAT. IT WAS SURELY VERY PROFITABLE.

FORAGE AND FODDER PLANTS

OF SPECIAL VALUE TO LIVE STOCK RAISERS

Every crop that will conserve the hay raised on a farm is of material advantage to the farmer. In this department will be found a number of items which, if properly used, will solve the problem of feed for the live stock when hay and pasturage are short from any cause. Sudan, Cane or Kaffir for fodder; Rape for pasturage; Vetch, Soy Beans or Field Peas for hay can be used by any farmer in the corn belt with profit. All may be siloed with corn to advantage.



MAKES FINE QUALITY HAY

SUDAN GRASS

WONDERFULLY PRODUCTIVE

A MOST VALUABLE QUICK GROWING PLANT FOR AN ANNUAL HAY CROP

This is an annual grass which is very highly recommended by the U. S. Department of Agriculture, who brought it to this country from the Egyptian Sudan in 1909.

It has become in a few short years one of the principal, if not the leading forage crop of America. Each year adds to its popularity as it proves a splendid crop. We have no record of failure or disappointment to the planter.

Sudan Grass is wonderfully productive. One customer reports over six tons per acre from a single cutting from which he also saved a crop of seed. This is probably the most profitable way to grow it, but our preference would be to produce two crops of hay from broadcast seeding, cutting the growth each time just when the seed heads are forming. We have produced it for several years on our farms. It makes such a magnificent crop of hay that we are urging our friends who need an annual hay crop to plant Sudan Grass, believing it will produce more tonnage per acre than any other grass now grown. We know that it thrives in Iowa and from the short time required for maturity we believe it can be grown anywhere in the

United States with satisfactory results.

We recommend Sudan Grass to take the place of the millets as a summer hay crop. It will yield much larger quantities per acre than any of the varieties of millet generally grown and is of better quality. This in our judgment is its most valued place in the agriculture of Iowa. It is especially valuable to the farmer who has no meadow of tame grasses. So much can be grown in such a short time that a small plot will cover the hay shortage. It will do as a substitute for sorghum for fodder or Kaffir, Milo and Feterita as a forage plant. The seed is not expensive, and when the small quantity required per acre is considered, you will see that you can grow a crop of it at less cost than any of the millets. Sow 6 to 10 lbs. per acre in drills or 15 to 20 lbs. broadcast. May be seeded as late as the last week of July with good results.

PRICES: Kansas Grown Seed—Per lb. 20c, 3 lbs. 50c, postpaid. **Iowa Grown Seed**—Grown from selected stocks. Per lb. 25c, 3 lbs. 60s, postpaid. See Farm Seed price list for quantity price.

EXTRA FINE FOR SORGHUM

AMBER

CANE

FOR HAY AND GREEN FORAGE

KENNEY'S EARLY AMBER CANE

An improved variety grown on our own farms to keep it pure. The stock seed has been saved from stalks tested for sugar content. This process has been followed for a number of seasons, until we now have without doubt, the best sorghum cane in the country. Specially recommended for northern planters as it matures quicker than other varieties. Will grow over wider area than any other sort. In addition a crop of seed worth \$25 or \$30 can be grown at the same time. Our own crop of Kenney's Cane has equalled 8 tons of stripped cane per acre, producing an excellent grade of sorghum, and in addition our crop of seed averaged a ton to the acre. Use only 5 lbs. seed per acre. **PRICE:** Per lb. 25c; 3 lbs. 60c, postpaid. Not prepaid, 10 lbs. \$1.25; 25 lbs. \$2.50; 100 lbs. \$8.00. See Farm Seed price list.

EARLY ORANGE CANE

Differs from the Amber variety both in stalk and shape and color of seed head. Seeds are red and are produced in compact head similar to Kaffir and Feterita. It is a few days later to mature than the Amber and is popular in southern Iowa, in Missouri, Kansas and Oklahoma. It is not so good for northern planters as the Kenney's Amber for sorghum making, but makes fine molasses where it matures. The syrup is somewhat lighter than that made from the Amber variety. Some planters prefer it for fodder. The stock we offer for sorghum making is grown for that purpose, while the seed sold for fodder is bought on the market from field growth. **PRICE:** High grade seed, per lb. 25c, 3 lbs. 60c, postpaid. Not prepaid, 10 lbs. \$1.25; 25 lbs. \$2.50; 100 lbs. \$8.00. See Farm Seed price list.

CANE FOR FODDER OR SILAGE

There is no fodder plant in existence that is so generally popular or that is grown over such a wide scope of territory. It is profitably grown anywhere from Manitoba to Mexico, on any good corn ground, and does not appear to be affected by drouth. It is easy to raise, the only real labor in its management coming at the harvest. It is valuable as pasture, green forage, as hay or fodder, and

as silage, so that a live stock feeder can, from one field of cane produce feed for several months as needed. It is wonderfully productive, the Ames Agricultural college harvesting twenty-nine tons of fodder per acre on August 27th from a plot seeded on May 21st. Send for free circulars on Cane and Sudan Grass. **PRICES:** Not prepaid, 25 lbs. \$1.00. See Farm Seed price list.

SUDAN IS GROWING IN POPULARITY EACH YEAR AS A FORAGE CROP. MAKES VERY CHEAP FEED.

KAFFIR CORN

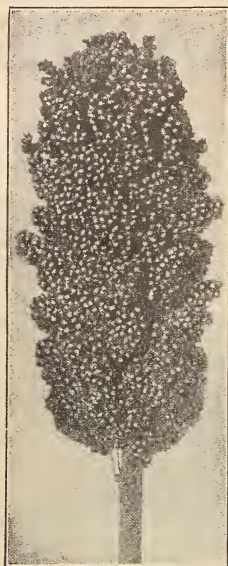
Grows five to six feet high, straight, upright growth. The stalk bears numerous wide leaves; keeps brittle and juicy, making excellent fodder either green or dried. Seed crop is heavy, yielding 30 bushels per acre. Can go without rain without any loss in yield. Generally cultivated in drilled rows about three and one-half feet apart, requiring about ten pounds per acre. It is given about the same cultivation as ordinary corn except that it is only cultivated one way. In sowing broadcast treat same as Amber Cane and we recommend from 50 to 100 pounds of seed per acre. Use a grain drill cross planting both ways. Price, packet 5c; lb. 20c; 3 lbs. 50c, postpaid. By freight or express, not prepaid, 10 lbs. 75c; 25 lbs. \$1.50. See Farm Seed list for quantity values.

MILO MAIZE

Belongs to the same family as Feterita and Kaffir Corn and resembles them in manner and habit of growth. Grain is light red and quite attractive and is preferred by makers of mixed feeds because of attractive appearance. The same methods of production are as recommended for Kaffir Corn above. Price per packet 5c; lb. 20c; 3 lbs. 50c, postpaid. By freight or express, not prepaid, 10 lbs. 75c; 25 lbs. \$1.50. See Farm Seed price list for quantity values.

FETERITA

Similar to Milo Maize and Kaffir Corn in general habit. It matures earlier than either, however, and the grains are somewhat larger and softer. It is also said to be more prolific, yielding thirty to fifty bushels of grain per acre, and suitable for feeding most any kind of live stock. Should be planted in the North about June 1st. In good weather grows quite rapidly and can generally be depended upon to ripen a crop. Pkt. 5c; lb. 20c; 3 lbs. 50c, postpaid. By freight or express, not prepaid, 10 lbs. 75c; 25 lbs. \$1.50. See Farm Seed price list for prices in quantity.



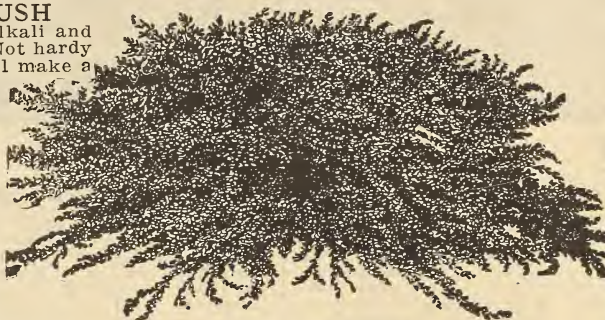
HEAD OF FETERITA



KAFFIR CORN

AUSTRALIAN SALT BUSH

Valuable for soils containing alkali and for all semi-arid or dry regions. Not hardy in the North. Once started it will make a strong growth during hottest and driest weather. Spreading habit, branching freely, making thick mat of stems and foliage 12 to 18 inches over entire surface of the soil. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00, postpaid; 5 lbs. or more by express, not prepaid, at 75c per lb.



AUSTRALIAN SALT BUSH

PENCILARIA

Particularly a dry, hot weather plant; adapted to the north. Seeds very small and when it first comes up looks like grass, but very soon resembles corn, having broad, succulent leaves. It stools out wonderfully, as high as 75 stalks grown from one seed. Grows 7 to 8 feet high and will produce 15 to 20 tons of green forage. Sow in May or June in drills 24 to 36 in. apart, using 2 lbs. seed per acre, or broadcast, 15 lbs. per acre. Pkt. 5c; ¼ lb. 15c; lb. 35c; 3 lbs. \$1.00, postpaid. By freight or express, not prepaid, lb. 25c; 5 lbs. \$1.00.



PENCILARIA

TEOSINTE

Very prolific, heavy yielding fodder plant. Resembles corn, but leaves are much longer and broader and stalks contain a sweet sap; 35 stalks have been grown from one seed, attaining a height of 11 ft. and thickly covered with leaves. Horses and cattle eat it freely. Plant at usual corn planting time in hills 3 to 4 ft. apart each way. Has yielded 50 tons of green fodder per acre. Government tests show Teosinte fodder to be as nutritive as corn fodder with the grain left in it. This plant will be a valuable silage crop. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. (for 1 acre) 75c postpaid.

WHITE CANADA FIELD PEAS

Entirely different from soy beans and cow peas. Like ordinary garden peas, growing 3 to 4 feet high. Their value is for early hay. Sow early as the ground can be worked, one bushel of peas to two bushels of oats per acre. Mix together and sow with grain drill. Cut when oats are in the milk, cure as ordinary hay. Matures in 90 days. Peas add nitrogen to the soil like clover so the crop is a help. Pkt. 5c; lb. 25c; 3 lbs. 60c, postpaid. By freight, 25 lbs. \$2.50. See Farm Seed list for quantity prices.

COW PEAS

There is as much difference in the grading of cow peas as in clover, and we handle only the choicest. **Circular on Cow Peas free.**

NEW ERA.—Use 30 lbs. seed per acre and plant like garden beans; particularly recommended for planting after grain harvest and plowing under in fall. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight, 25 lbs. \$2.00. See Farm Seed list for quantity prices.

WHIP-POOR-WILL.—A popular sort. Pkt. 5c, lb. 25c, 3 lbs. 65c. By freight, 25 lbs. \$2.00. See Farm Seed list for quantity prices.



TEOSINTE



WHITE CANADA FIELD PEAS

YOU CANNOT REALIZE THE FULL VALUE OF THESE FORAGE CROPS UNTIL YOU YOURSELF PRODUCE AND USE THEM

PLANT WITH THE CORN**SOJA OR SOY BEANS****DRILL FOR HAY CROP**

FIELD OF SOJA OR SOY BEANS

VARIETIES OF SOY BEANS

BLACK EYEBROW.—Beans are black and yellow, easily identified. Very prolific, early ripening and desirable. Produced the heaviest crop for us this season.

MANCHU.—Medium size, clear yellow bean; grows upright, heavy foliage and splendid yielder. Our stock true to name, grown by ourselves, here in Iowa.

ITO SAN.—Best known variety. Beans yellow with distinct spot on blossom end. Upright grower, heavy foliage, very prolific.

MIDWEST.—A small yellow bean of excellent habit. Matures early. Stands up well, with strong foliage. Formerly sold under the name of Mongol and Medium Yellow.

The most valuable method of using the Soy Beans in the Corn Belt is to plant them in the corn at the time of planting, placing two or three beans in each hill of corn. Most planters now have either a Soy Bean attachment or one which can be adjusted to the dropping of the beans in the manner suggested. The crop is "hogged down" in October and produces pork at very low cost. If rape is sown in corn and beans at last cultivation, added value is given to the pasturage.

Do not expect to harvest the corn and beans together for silage. The beans should be grown separately and fed into the cutter with the corn, thus adding the necessary protein to balance the feed.

For hay or fertilizer purposes use one to two bushels per acre and plant with a grain drill. Harrow the beans until four or five inches high. If you are to get best results, the land should be plowed and beans turned under the latter part of September or first of October.

As a crop to improve the soil it is fully equal to clover. The roots of the plant gather nitrogen in the same manner as the clover and builds up the land in

the same way. When grown for a seed crop use 15 to 30 lbs. per acre, drilling in rows 30 to 36 inches apart, with beans one inch apart in the rows. Cultivate frequently. An average yield on good soil is 25 bushels per acre.

There are a great number of varieties of Soy Beans. Some are too late for the north, while others are not profitable or do not ripen in a satisfactory manner. We list only those varieties proven to be adapted to northern conditions.

All soy beans we offer will be submitted to the Farm Crops Department of the Ames College for identification, to make sure they are true to name. Pkt. any variety, 5c; lb. 25c; 3 lbs. 60c, postpaid. Not prepaid, 25 lbs. \$4.00. See Farm Seed price list for varieties and prices.

SOW IN SMALL GRAIN**DWARF ESSEX RAPE****SOW AMONG THE CORN**

This is without question one of the most popular and profitable of all annual forage plants, and everywhere it is giving the best of satisfaction. It is easily grown anywhere and stands unsurpassed as a pasture plant for hogs, cattle or sheep. They eat it greedily and seem to prefer it to any other pasture during the summer till late in the fall or early winter. It can be sown early in the season to provide for early pasture for sheep and swine or sow in small grain a few weeks after sowing the grain to provide pasture after harvest. This is very popular method, but it is generally the practice to sow the rape at same time the grain is seeded.

At the Iowa Experiment Station, 60 bushels of oats and 18 tons of rape were grown on an acre, the oats and rape being sown together early in the spring. The rape interfered but slightly with harvesting the oats and afterwards produced a heavy growth which amounted to 18 tons when cut in October.

Rape is also sown in corn at last cultivation. This is a very profitable method where the crop is to be "hogged down" in October. Rape belongs to the cabbage family and will generally withstand the frosts of September or early October, and adds greatly to the value of the forage crop with the corn where stock are turned in.

Rape is an exceptional forage crop for Iowa conditions. This is all the more appreciated when we emphasize that in good rape years, pigs pastured on this forage require less grain feed for 100 pounds of gain than when grazed on alfalfa. We will send you a copy of the complete bulletin on rape if you ask for it. Pkt. 5c; lb. 30c; 3 lbs. 75c, postpaid. Not prepaid, 10 lbs. \$1.50; 25 lbs. \$3.00. See Farm Seed price list for quantity prices.

**SAND OR WINTER VETCH**

Sand Vetch has by analyses a feeding value not surpassed by any forage plant, not even alfalfa. Seeded in the fall it makes excellent pasture in early spring. Seeded for hay it should be broadcasted or drilled, one bushel mixed with a half bushel of rye or winter wheat. It is ready to cut the middle of June, and will produce three cuttings in a season. It gathers nitrogen like clover and is a wonderful plant to build up worn out soils. Pkt. 5c; lb. 40c; 3 lbs. \$1.00, postpaid. See Farm Seed price list.



EXTRA QUALITY IOWA GROWN CLOVER SEED

MEDIUM OR COMMON RED CLOVER

"Iowa Shield" Brand Clovers our Famous Specialty

We sell thousands of bushels of the different kinds of clover seed direct to farmers and it is all sold because those farmers get better quality of seed,—brighter, cleaner, more plump and vital—than they can secure elsewhere. The reason is that we take special care to have everything first class and protect our customers by using the microscope in both buying and selling.

Our clover seed has become widely known for its purity, strong vitality, hardiness, vigorous and healthy growth, and branching qualities, so that now we receive many orders from the most distant parts of the United States. Well posted farmers appreciate the difference between it and ordinary stock. This is the most important of all clovers and the standard everywhere for hay and pasture and our "Iowa Shield" grade is the plumpest, cleanest, purest, fanciest grade, tested and of high vitality. Farmers usually sow 15 to 20 pounds of clover seed to the acre when sown alone, but this seed is so choice that 6 or 7 pounds is really sufficient if conditions are favorable, but we recommend sowing 10 pounds so as to be sure of a perfect stand. About 5 pounds, if sown with timothy. Per pound, 40c; 3 pounds \$1.00, postpaid. See Farm Seed price list for quantity prices.

MAMMOTH RED CLOVER

This is also called Sapling or Pea Vine Clover. It greatly resembles the Medium Red but grows coarser and more vigorous. It is the best clover for pasturing as it will produce an enormous yield and is of the highest feeding quality but not as desirable for hay. Specially desirable for hog pasture. You can enrich your soil more cheaply by sowing Mammoth Clover and plowing it under than in any other way. Per lb. 40c; 3 lbs. \$1.00, postpaid. Ask for price in quantity.

WHITE DUTCH CLOVER

The low growing, creeping, hardy white flowered sort so common throughout the country. It spreads rapidly as it is almost certain to reseed itself each year. Its principal use is in permanent pastures. It is also offered among the lawn grass seeds on page 40. Per lb. 75c; 3 lbs. for \$2.00, postpaid. See Farm Seed price list for quantity values.

CRIMSON CLOVER

Also called Giant Incarnate. This is an annual clover and it will not survive the winters in the north. In the south it is sown in the fall and winters over, making a grass crop in early spring. It has value, however, and if you want to take a year from your rotation, sow Crimson clover with small grain in spring, turning it under just before frost in fall. You can use it to advantage where winter wheat or rye are a part of the rotation by seeding Crimson clover on growing grain in April and covering with the harrow. It will make a good growth after the grain is harvested and if the land is plowed in October the soil will be in fine condition for a corn crop the following spring. As its principal value is soil building we recommend heavy seeding and would use 15 to 20 lbs. per acre. Per lb. 40c; 3 lbs. \$1.00, postpaid. See Farm Seed price list for quantity values.

ALSIKE CLOVER

Alsike clover is a perennial variety and because it does not die out after seeding as does the common red variety, it is preferred for permanent pastures and meadows. It is harder than common clover and will winter over the severest seasons. It thrives on wet, heavy soils and in mucky ground better than any other clover. It grows somewhat smaller than ordinary clover and many farmers prefer it for hay on that account. It grows 18 to 24 inches high and has round pink or flesh colored blossoms. The seed is small like timothy seed and 7 lbs. alone or 3 lbs. with timothy, are sufficient for an acre. You can seed with Alsike at a lower cost per acre than any other clover.

Alsike clover seed is nearly always produced in mixed meadows. For this reason there is no other clover seed which varies so greatly in quality and price. Don't buy cheap Alsike and don't buy any that has not been thoroughly cleaned. Seed as usually threshed will contain sorrel, dock, timothy, white clover, dirt and trash and it requires expert service to get it really clean enough to use with safety. Well matured clean Alsike seed is blue-green in color, without yellow, and if samples show red they contain immature seed which is of doubtful vitality. It may be taken for guidance that the bluer and brighter the seed the better. Because of its distinctive size and color you can easily determine for yourself the quality. Cleaned seed costs more than if the impurities are not taken out, but you cannot afford to sow seed on a price basis alone. It has great value as a soil builder, and when the permanent pasture or meadow is plowed after a number of years standing, the land will be much stronger if a good proportion of Alsike has been included. Per lb. 40c; 3 lbs. \$1.00, postpaid. See Farm Seed list for price in quantity.

TIMOTHY AND ALSIKE MIXTURE

This has proven a very popular item for permanent meadow, and is really a desirable hay crop. Timothy and Alsike mature seed at the same time so that when seed from a mixed field is threshed both items are contained in the seed crop in proportion as they grow in the meadow. We do not advocate the use of such seed. It is possible with modern cleaning machinery to separate the Alsike from the timothy and to remove the weeds and trash that invariably come from the thresher. All the mixtures we sell we prepare in our own warehouses. We use clean seed of high quality. We know that the quality supplied by us will please you and we also know that the proportions are as represented. It would cost less if we sold field grown mixture, as it can generally be purchased at comparatively low price. It is our thought that no seed should be used without recleaning, and this service can best be given by complete separation. Do not plant any seeds without grading. Sow only plump, vital seeds. These only result from recleaning because nature produces a heavy percentage of weak seeds. Use 15 lbs. of the mixture per acre. Twenty-five pounds of Alsike to 75 lbs. of Timothy is the best proportion. Per lb. 25c; 3 lbs. 60c, postpaid. See Farm Seed price list.



HARDY UPLAND AMERICAN ALFALFA SEED

Send for free booklet "How to Grow and Use Alfalfa."

No crop is so valuable for permanent meadow as Alfalfa. In ordinary seasons three crops of hay are cut in Iowa and the North generally, while many seasons produce four cuttings. It stands the dry, hot months of July and August in the corn belt and continues green and growing at this time when other grasses are dormant. It is grown everywhere in the United States now, and it is a question of soil rather than climate which determines success or failure with Alfalfa. We procure our American Alfalfa seed from the states of Kansas, Nebraska and South Dakota so that they are suitable for any section of the country. Actual tests of seed from all over the United States show that the stocks produced in the semi-arid districts of the states named give the best results and are harder than stocks grown farther south or by irrigation in the West. It is because of the results of actual plantings that we offer this seed, and when we have re-cleaned it, taken out dirt, trash, immature seeds and weeds, we have the best possible stocks

THE QUALITY OF SEEDS

There is always a great deal of low grade seeds sold on the market just as it comes from the machines; naturally such seeds will be offered at cheaper prices. It will pay you, however, to buy the best seed you can find. You had better have five pounds of clean, plump and vital seeds where every plant will be strong and vigorous than to have ten pounds, some of which is only sand or dirt and a great part of which will produce weak plants without strength or vitality.

You must remember that Alfalfa plants only survive if they have a strong and vigorous start and this is impossible from immature or weak seeds. As it is a permanent plant an additional reason is given for excellent care in the selection of seed which you sow.

Many farmers are now using inoculating bacteria on Alfalfa seed before planting and while we have hesitated to recommend this we now believe that the practice is a good one, and that it really does improve the crop.

IOWA SHIELD ALFALFA SEED

No seed which we handle is given closer scrutiny than Alfalfa. We buy only the best offered; using the microscope and analyzing for purity. Our Iowa Shield Brand grade is the brightest, plumpest and cleanest we can find; and even this is not good enough for the Shield grade until we have re-cleaned it through our perfected machinery and taken out everything in the way of sand, broken grains and dirt. We invite the closest inspection of our Iowa Shield Brand Alfalfa from particular farmers and we will gladly mail you a sample on request for microscopic inspection and analysis. Per lb. 40c, 3 lbs. \$1.00, postpaid. See Farm Seed list for price.

GRIMM ALFALFA

In response to demand we are offering what we believe to be true Dakota grown stock of this variety. We will use the greatest care to provide our customers with genuine Grimm. Per lb. 75c, 3 lbs. \$2.00, postpaid. See Farm Seed price list.

OUR FANCY GRADE ALFALFA

Will be found of excellent purity, free from prohibited weeds, and grading lower than the Iowa Shield Brand because of color rather than actual value. See Farm Seed list.

IOWA STANDARD ALFALFA

The Iowa Standard is a good grade of Alfalfa, fully up to standard of the Iowa pure seed law, and is in fact fully equal to most of the Alfalfa seed offered as "choice" or "prime" by other dealers. Write for price.

TURKESTAN ALFALFA

We import the seed of this variety, but are just as careful in our buying as we are in the purchase of American seed. There is a demand for this sort in the semi-arid regions of the west and northwest as it is said to be harder than our native sorts. Lb. 40c, 3 lbs. \$1.00, postpaid.

STANDARD BRAND INOCULATING BACTERIA

For Alfalfa, Sweet Clover, Common Clover, Soy Beans, Cow Peas, Vetch, Garden Peas, Beans, Sweet Peas and all Legume
Price: 1 acre 75c. 2 acres \$1.40, 4 acres \$2.00 6 acres \$2.75

Add 5c per acre for postage and packing.

KINDS OF BACTERIA

There are many kinds of legume bacteria, differing from each other in shape, size and general characteristics. There is a separate bacteria for each of the legumes. Alfalfa has its own bacteria. There is a separate and distinct germ for the different kinds of beans and peas, as well as a separate germ for each of the clovers, red clover, alsike clover, crimson clover, etc., each having its own germ. Sweet clover, however, has practically the same germ as alfalfa. Mammoth clover being only a development of red clover, has the same germ as the red. With these exceptions each legume has a different germ. Each legume, therefore, must have its own kind of bacteria and without nodules the plant can take no nitrogen from the air.

HOW TO INOCULATE THE SEED

Each bottle of bacteria, as it reaches the customer, is only partially filled with bacteria. When ready to inoculate the seed, remove the rubber cork, fill the bottle about two-thirds full of water and stir and shake thoroughly. Spread the seed on a clean floor. Pour the diluted bacteria out of the bottle into a pan, adding enough more water to nicely moisten all the seed. This will require at least a pint for each bushel of seed. Sprinkle the seed either by hand or with a sprinkling can, stirring the seed well with the hands so that each seed is moistened. Dry in a cool, airy place, but keep them out of the sunshine while drying.

SOWING THE TREATED SEED

Inoculated seed should be sown soon after they are sufficiently dry to handle. If slightly moist all the better. It is a good plan to treat the seed in the evening and sow early the next morning. If placed in a dark place, however, they can be kept for many days, but they should be slightly moistened again, with water, just before sowing.

THE GROWTH OF ALFALFA IS A QUESTION OF SOIL RATHER THAN CLIMATE. OUR HARDY STRAINS FOR ALL LATITUDES.



SCARIFIED BIENNIAL SWEET CLOVER SEED

Ask for Free Circular on Sweet Clover and Price Per Bushel.

Sweet Clover is now a standard crop throughout the country. It is now being used in spring sowing exactly as common red clover. Some farmers seed it with small grain for nurse crop, while others are sowing it alone in early spring and securing both pasturage and hay the first year. The handling of this crop has passed the experimental stage. We now have machines to hull and clean it, so that we offer it in as high quality and purity as any clover.

SCARIFYING THE SEED.—One great difficulty with sweet clover in the past was slow germination. In the natural condition the seed has a very hard hull and the germ does not start quickly. Sometimes spring sown seed would not sprout until fall, and at best only about 70 per cent germination might be expected. Prof. H. D. Hughes, of the Iowa Agricultural College, at Ames, Iowa, perfected a machine to scarify the seed, and kindly permitted us to install one in our warehouse so that we can now supply our customers with seed that will show a high percentage of germination. Scarified seed will give you 25 per cent greater germination than untreated seed, and is really worth that much more. Use 12 to 15 lbs. of scarified seed per acre. This gives a heavy stand resulting in hay of fine texture and quality.

Sweet Clover belongs to the family of leguminous plants, and adds greatly to the fertility of the soil on which it has been grown. The same bacteria which live on its roots thrive on the roots of alfalfa and therefore it is claimed that alfalfa will do much better on land where Sweet Clover has previously been grown. It roots very deeply, therefore opens up the soil so as to adapt it for all other kinds of crops, making it not only more rich in nitrogen, but allowing the roots of other plants to penetrate more deeply.

Sweet Clover will grow and make a crop on the poorest

soil and worst locations of any of the grasses. It thrives on land where there is no plant food apparently. It will be found growing wild in railroad cuts, about the mouths of abandoned coal mines, or steep hillsides where stone crops out—in fact it will grow under more adverse conditions than any of the coarser grasses, and every place it grows it enriches the soil and prepares it to produce the more economic grains and grasses. It is used by thousands of farmers as a forerunner for alfalfa. You will not require inoculation or any preparation of any kind if you sow alfalfa on land that has grown sweet clover.

Many times a farmer wants to start a field of sweet clover in the fall. This is readily done, and by this method you get it out of the way of spring work. Sow in late October on thoroughly prepared ground. The seed will lay in the ground all winter and sprout in early spring. We believe you get quicker growth and larger crops with fall sown seed, although since the scarifying process has been perfected quicker growth is secured with spring sown seed.

WHITE BIENNIAL.—(*Melilotus Alba*, or Bokhara.)—The white-flowered variety frequently seen growing wild along the roadsides. In growing it for hay, it is cut when about 18 inches to 2 feet high and before it begins to branch heavily. If the mower bar is set about 6 inches above the ground it will cut above the first branches and the clover produces a second crop. If cut too close to the ground the plants are not likely to survive the first cutting. Sow very early in spring or fall, and without a nurse crop. Germinates more quickly and freely if sown on a well prepared seed bed. Per lb. 25c, 3 lbs. 60c.

YELLOW BIENNIAL.—(*Melilotus Officialis*.)—Very similar to the commoner white-flowered (*Melilotus Alba*), but blooms a little earlier. Not so rank and coarse and for this reason is claimed to be superior. Per lb. 25c, 3 lbs. 60c.

HUBAM - ANNUAL SWEET CLOVER

Ask for Free Circular on Hubam and Price per Bushel.

This is the annual white flowered sweet clover, discovered by Prof. Hughes of the Iowa Agricultural College, who traced its point of origin to Alabama, where it was found growing among the biennial variety. It was given the name "Hubam" for the sake of brevity and to combine the name of the discoverer with the place of its discovery, and also to distinguish it from other clovers. It is expected by the use of Hubam to build the soil in one season as much as in two seasons with the common red clover. It will make a crop of hay in seventy days without a nurse crop, or you can seed it with small grain in early spring at the rate of 20 lbs. per acre and secure a crop of hay after grain harvest in the fall. It is not adapted for fall sowing as it will not survive our northern winters, but it can be seeded in the fall in the south. In common with the biennial varieties it is adapted to very poor soils, and will rapidly build up the land fertility. It will prove a splendid forerunner for alfalfa. By sowing the Hubam in April without nurse crop, you can cut the hay in July, turn the soil and sow the alfalfa in August. By this method your alfalfa will be almost certain to succeed. It is a wonderful plant for bees. By cutting a part of the field at intervals you can have an abundance of bloom the whole season. We caution you to buy Hubam only of a reliable seed house. We know we have the true "Hubam" and we will offer only the best hulled and re-cleaned seed. At present prices you can afford to use it freely. Per lb. 50c; 3 lbs. \$1.25, postpaid. See Farm Seed list for quantity prices.

NITRAGIN BACTERIA CULTURE

This preparation is in the form of dry powder and is applied to clover seed, alfalfa, soy beans and other legumes by simply dusting over the seed before sowing. It is preferred by some farmers because of its convenient form for handling. It is used for the same purpose as the Standard Inoculating Bacteria offered on the preceding page. There is a Nitrugin for each legume crop and you will please tell us the crop you want it for when ordering. Full directions for use are printed on each package.

"NITRAGIN" is shipped to you by mail or express in a ventilated can in a granular medium, in which the germs will live for a long time. Guaranteed for one year; date of expiration stamped on each package. Always fresh.

PRICES—ANY CULTURE

	By Express	Post-paid
¼ bushel....	\$.40	\$.45
½ bushel....	.60	.70
One bushel...	1.00	1.10
Five bushels.	4.75	5.00

This means Nitrugin will cost you 20 cents per acre if you sow 12 lbs. of seed per acre; 25 cents per acre if at the rate of 15 lbs. per acre, or 33 ⅓ cents per acre if you use 30 lbs. of seed per acre.



THE SALE OF SWEET CLOVER SEED INCREASES EACH YEAR AS ITS VALUE BECOMES BETTER KNOWN TO OUR FRIENDS.



GRASS SEEDS FOR PASTURES AND MEADOWS

TIMOTHY

Timothy is now the most popular and widely distributed of grasses. It grows throughout the United States; thrives in the temperate zones throughout the world. It is a hardy perennial and quite tenacious so that it continues to grow in spite of summer heat or winter cold. It is the foundation grass for meadows and pastures and is popular because it fits in with almost any rotation system. Generally sown with clover in spring, among oats, wheat or rye.

We make a specialty of supplying the choicest timothy direct to farmers. We carefully clean all timothy seed we offer. Generally the seed as it comes from the machines contain dirt, trash and weed seeds. Don't sow uncleaned seed. It is difficult at best to keep weeds off the farm, and impossible if you sow grass seeds without recleaning.

Use 12 lbs. of seed per acre if alone; 10 lbs. with clover. Per lb. 25c, 3 lbs. 50c, postpaid. Ask for price in quantity.

KENTUCKY BLUE GRASS

Kentucky Blue Grass is the most popular of the light grasses. It thrives in all parts of the United States. As a pasture grass it affords more nourishment for live stock than any other. Sow 15 pounds per acre.

"IOWA SHIELD" KENTUCKY BLUE GRASS.—(See Lawn Grass, page 40, for description.)

FANCY CLEANED.—The legal weight of Blue Grass is 14 lbs. per bushel. Improved cleaning is now possible and the ordinary grade will actually weigh 17 to 19 lbs. per measured bushel. By mail postpaid per lb. 50c; 3 lbs. \$1.40. See Farm Seed price list.

ORCHARD GRASS

Second only to blue grass as a pasture grass and superior to it for meadow purposes. Available very early in spring and continuing fit until frozen. Seems to grow more luxuriantly the more it is cropped. Thrives better in shaded situations than other grasses, and is therefore specially valuable for woodland pastures and meadows. Per lb. 50c; 3 lbs. \$1.40, postpaid. See Farm Seed price list.

RED TOP

Very hardy perennial, in form similar to blue grass. Specially useful as an item in pastures or meadows on wet soils. Adapted to almost all land but succeeds best and gives best returns with rich soil and plenty of moisture. Solid seed per lb. 40c; 3 lbs. \$1, postpaid. See Farm Seed list.

ENGLISH BLUE GRASS

Also called Meadow Fescue. (Weight 14 lbs. per bushel.) A valuable grass and one growing in use as it becomes known to western planters. It is splendid in mixed pastures or meadows. Sow 20 lbs. per acre if alone. Lb. 50c; 3 lbs. \$1.40, postpaid. See Farm Seed list for quantity prices.

PERENNIAL RYE GRASS

Also known as English Rye Grass. This sort is perennial, perfectly hardy in our climate and a valuable grass for permanent meadows or pastures. Legal weight 14 lbs. per bushel. Sow 20 lbs. per acre. Lb. 35c; 3 lbs. \$1.00, postpaid. See Farm Seed price list.

ITALIAN RYE GRASS

The annual rye grass which grows so quickly. Produces a fine crop of hay in 70 to 80 days. Will produce second crop suitable for pasturage. Sow 14 lbs. (1 bu.) per acre. Per lb. 35c; 3 lbs. \$1.00, postpaid. See Farm Seed price list.

BERMUDA GRASS

A most valuable grass for the South. Withstands heat and drouth wonderfully. It runs over the ground forming a dense turf. Sow 8 lbs. per acre. Per lb. 95c, 3 lbs. \$2.70, prepaid; 5 lbs. or more not prepaid, at 75c per lb.

PERMANENT UPLAND MEADOW

Provides a mixed hay of best quality. It also may be pastured after cutting should it be preferred to use it in that manner. Based on 3 lbs. red clover, 3 lbs. alfalfa, 6 lbs. timothy, 1 lb. English blue grass, 1 lb. perennial rye grass and 1 lb. orchard grass per acre. Price 55c per lb.; 3 lbs. \$1.50, postpaid. See Farm Seed price list.

PERMANENT LOWLAND MEADOW

Peculiarly adapted for heavy and wet soils and for those fields that are under water after heavy rains. Basis per acre: Alsike clover 3 lbs., timothy 3 lbs., Red Top 3 lbs., English rye grass 3 lbs., and meadow fescue 3 lbs., a total of 15 lbs. These are all perennials. Price 55c per lb.; 3 lbs. for \$1.50, postpaid. See Farm Seed price list.

PERMANENT UPLAND PASTURE

For ordinary soils and desirable for all kinds of stock. Grasses are all hardy and will furnish pasture from early spring until severe freezing weather. Basis per acre: Alfalfa 1½ lbs., Alsike clover 1½ lbs., red clover 1½ lbs., timothy 3 lbs., perennial rye grass 1 lb., English blue grass 1 lb., Kentucky blue grass 2 lbs., Red Top 2 lbs., orchard grass 1½ lbs. Price 55c per lb. or 3 lbs. for \$1.50, postpaid. See Farm Seed price list for quantity values.

PERMANENT LOWLAND PASTURE

Particularly recommended for low, moist lands or for pastures that do not have drainage sufficient to throw off rains quickly. All are hardy and perennial so that the pasture should remain in good condition for many years. Basis per acre: Alsike clover 3 lbs., timothy 4 lbs., Red Top 4 lbs., English blue grass 2 lbs., Kentucky blue grass 2 lbs. Price, 55c per lb., 3 lbs. for \$1.50, postpaid. See Farm Seed list.

WOODLAND PASTURE MIXTURE

For orchards or timber pastures. A top seeding in early spring without cultivation makes better pasturage than nature's methods. Basis is White Dutch clover 3 lbs., orchard grass 6 lbs., Kentucky blue grass 5 lbs., English blue grass 3 lbs. and Perennial rye grass 3 lbs. Permanent. Price, 55c per lb., 3 lbs. for \$1.50, postpaid. See Farm Seed price list for current values.

MILLET

Nothing like millet to cover up shortage in hay. Can be sown the middle or end of July and makes a valuable crop.



IOWA SHIELD GOLDEN MILLET.—This is an extra fancy grade of the true southern grown Golden millet of the Tennessee or cultivated strain. The seeds are round and "shotty." The heads are very large, borne on a strong, vigorous, very leafy plant and produce a much heavier crop than the ordinary stock. Per lb. 25c; 3 lbs. 60c, postpaid.

COMMON MILLET.—Preferred by some to Golden, as it does not grow so rank and coarse. Makes a better quality hay, but will not produce so heavily. Use strong, rich ground for best results. Lb. 20c, 3 lbs. 50c, postpaid.

SIBERIAN MILLET.—Frequently called Red millet. Resembles Golden millet in manner of growth and productiveness. Seed is mixed red and yellow. Lb. 20c, 3 lbs. 50c.

HUNGARIAN.—Popular in some sections. Sometimes preferred to millets as it is thought to be less dusty. Per lb. 20c, 3 lbs. 50c, prepaid.

JAPANESE MILLET.—(*Panicum crus-galli*).—The "Billion Dollar Grass." Valuable for the north. Yields an enormous crop. Makes an excellent hay. Per lb. 30c, 3 lbs. 75c, postpaid.

MANITOBA MILLET.—Hog or Broomcorn millet. Best for withstanding drouth. Two weeks earlier than Golden. Per lb. 20c, 3 lbs. 50c, postpaid.

WE MAKE NO EXTRA CHARGE FOR BAGS TO HOLD TIMOTHY, CLOVER AND OTHER GRASS SEEDS SHIPPED TO YOU.

LAWN GRASS SEED

**"EVERGREEN"
AND
"SHADY PLACE"**
Lawn Grass
Prepared by
THE IOWA SEED CO.
DES MOINES, IOWA

A nice velvety lawn adds more to the beauty of a place than any other adornment, and even the humblest home may be made attractive with such surroundings, while without a good lawn even the finest flowering plants and elegantly arranged beds seem insignificant. How important it is then to plan for the best lawn obtainable. Do not spend money in sodding a lawn for it is expensive and seldom satisfactory. When sod is cut from the roadside or some out-of-the-way pasture, it is poor in quality and full of weeds, and when unevenly laid produces a rough surface which disfigures the lawn. It costs much less to sow the seed and the lawn is far better. Ask for twenty-page booklet of information, "How to Make a Lawn."

EVERGREEN MIXED LAWN GRASS SEED.—(Bu. 15 lbs.)—Our own special mixture of grass seeds suited for growing together in the central and northern states. Will make a beautiful, soft, velvety lawn, as handsome green as an emerald and is formed of grasses which keep green from early spring all through the summer. It comes up quickly and it soon spreads to cover the ground. Ready for the mower in 6 or 8 weeks. Permanent, though it is a good plan to give a lawn a top seeding every 2 or 3 years. Made from new crop, re-cleaned, seeds. Per lb. (will sow 400 sq. ft.) 50c, 3 lbs. \$1.40, postpaid. Not prepaid, 10 lbs. \$4.00.

SHADY PLACE MIXTURE.—(Bu. 15 lbs.)—This mixture is a combination of fine, dwarf-growing, evergreen varieties of grass which grow naturally in the woods or in shaded spots, to make a fine lawn under shade trees. All grasses need sunlight, but certain ones thrive better in shaded situations than the ordinary kinds. By the use of our Shady Place Mixture you can get a fine grass under the trees and along the north side of boundary fences and hedges. Sow the seed thickly, one lb. to three hundred square feet. Heavy seeding makes quick sod. Price per lb. 75c; 3 lbs. \$2.00, postpaid. Not prepaid, 10 lbs. \$5.00.

TERRACE LAWN MIXTURE.—(Bu. 15 lbs.)—It is very difficult sometimes to grow a good sod on sloping ground, terraces, side hills, or on embankments. This is a mixture of grasses which have strong and spreading roots, making a close turf which heavy rains cannot wash out easily. On new lawns some oats should be sown in order to prevent washing until the grass gets a start. Per lb. 75c; 3 lbs. \$2.00, postpaid. Not prepaid, 10 lbs. \$5.00.

LAWN FLOWER MIXTURE.—A special mixture of low growing, quick blooming flowers, very desirable for sowing with Lawn Grass Seed in the spring. Pkt. 10c, oz. 35c.

KENTUCKY BLUE GRASS

KENTUCKY BLUE GRASS, "Iowa Shield" Brand.—(Bu. 14 lbs.)—The legal weight of Blue Grass is 14 lbs. per bushel. Improved cleaning is now possible and the "Iowa Shield" grade will actually weigh 21 to 25 lbs. per measured bushel. To avoid confusion we offer by the pound. We pride ourselves on this extra choice grade, which is of such unusual purity and high germination that it is of special value for lawns or for mixing with heavier grasses when seeding for pasture. This is the best grade of fancy cleaned, new crop, tested seed. The crop is very short and prices may advance before spring. Lb. 60c; 3 lbs. for \$1.50, prepaid. Not prepaid, 10 lbs. \$4.25. See Farm Seed price list.

WHITE DUTCH CLOVER

WHITE CLOVER, "Iowa Shield" Brand.—The well known common white clover is very hardy and its dwarf growth makes it desirable for lawn mixtures. Its close, dense turf and creeping habit makes it fine for terraces and sloping ground. Seed very small and requires but little in mixtures. Our stock is the best and cleanest we can find. Specially suited for lawn seeding. Lb. 75c; 3 lbs. \$2.00, postpaid. See Farm Seed list for quantity prices.

LAWN FERTILIZERS

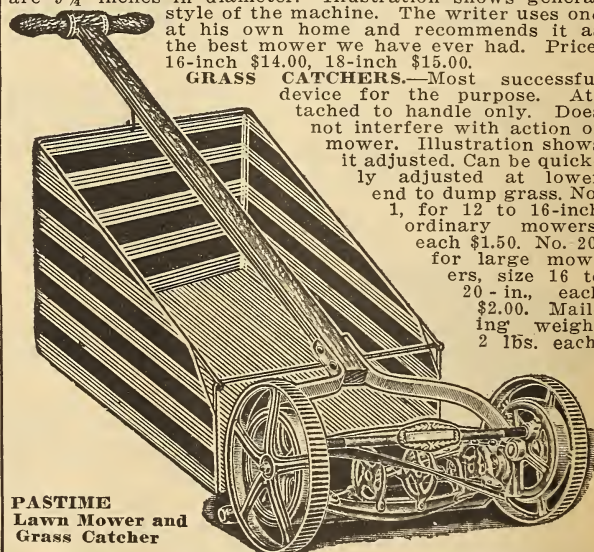
PEERLESS FERTILIZER.—Lawn grass is a voracious feeder and will not thrive and hold its color and velvety appearance unless it is suitably fed. Our Peerless Fertilizer is of best quality, dry, finely pulverized, easy to apply, practically non-odorous. In preparing a new lawn sow 25 to 50 lbs. per 1,000 sq. ft. of surface, according to richness of soil, raking in thoroughly. For top dressing on lawns, use about 40 lbs. per 1,000 sq. ft. or 1,000 lbs. per acre, early in spring. 10 lb. pkg. 50c, 25 lbs. \$1.00, 50 lbs. \$1.75, 100 lbs. \$3.00. Ask for price in quantity.

SHEEP MANURE.—This is a natural manure, unadulterated. If wanted in liquid form, dissolve at the rate of 1 lb. to 5 gallons of water. Price, 10 lbs. for 50c, 50 lbs. \$1.75, 100 lbs. for \$3.00. Ask for price in quantity.

PURE BONE MEAL.—It is clean, free from odor and gives results in added growth of grass. Preferred by many users because it lasts longer than other fertilizers, one application usually showing results for several seasons. 10 lbs. 50c, 50 lbs. \$1.75, 100 lbs. \$3.25. Ask for prices in quantity.

PASTIME LAWN MOWER.—After many years' experience in the lawn mower trade, we have adopted the policy of confining our line to one style and two sizes. The real problem is to get the very best mower possible at a fair price and offer it in sizes most convenient. In our Pastime mowers we have a new style which we are offering as the easiest running mower yet produced. It is ball bearing and has four cutting knives. The wheels are 9 1/4 inches in diameter. Illustration shows general style of the machine. The writer uses one at his own home and recommends it as the best mower we have ever had. Price, 16-inch \$14.00, 18-inch \$15.00.

GRASS CATCHERS.—Most successful device for the purpose. Attached to handle only. Does not interfere with action of mower. Illustration shows it adjusted. Can be quickly adjusted at lower end to dump grass. No. 1, for 12 to 16-inch ordinary mowers, each \$1.50. No. 20, for large mowers, size 16 to 20 in., each \$2.00. Mailing weight 2 lbs. each.



**PASTIME
Lawn Mower and
Grass Catcher**

MANY OTHER NEEDED SUPPLIES FOR USE ON THE LAWN ARE LISTED ELSEWHERE IN THIS CATALOGUE

FLOWER SEEDS.

Our floral beauties come in for their full share of attention, and aside from our seed farm we have several acres of land right in the city, convenient to the street cars, devoted exclusively to flowers. Here we grow thousands of varieties and have in our employ experienced specialists in this line, who, under our supervision, attend to growing whatever can be grown to advantage in this country, test all novelties offered in this country or Europe, and are constantly trying by selection and hybridization to improve the leading varieties, and make our choice Iowa Flower seeds just what we are striving for—the best in the world. We invite all our customers to call and see this Floral Exhibition whenever they are in the city. Even during the winter the large green-houses on these grounds are a revelation of beauty which surprises everyone. We also have a large acreage on our seed farms east of this city devoted to floriculture. Our flower seeds are all fresh and we know are unsurpassed. Quality is always the first consideration. Our mixtures are mainly made up by ourselves and will yield a better assortment than is commonly found.

AGROSTEMMA

A hardy plant introduced from Russia. Blossoms similar to pinks on long, slender stems. Suitable for border plants; fine for bouquets or cemetery. Mixed colors. Pkt. 5c.

AMARANTHUS

Prized for handsome foliage. Colors will be more brilliant if in moderately rich soil.

TRICOLOR.—Leaves yellow, red and green; well known as "Joseph's Coat." Hardy annual; 2 feet high. Pkt. 5c.

SALICIFOLIUS.—Known as "Fountain Plant." Pkt. 10c.

CAUDATUS.—(Love Lies Bleeding.)—Produces long, drooping chains of brilliant colored flowers. Pkt. 10c.

Mixed Varieties.—Pkt. 5c; ¼ oz. 10c; oz. 30c.

AMBROSIA

(Perfume Plant.)—Long spiral stem with abundant round, greenish-yellow buds and blossoms. Very fragrant. Pkt. 10c; ¼ oz. 25c

ANTIRRHINUM

GIANT FLOWERED.—Most beautiful new class, having all the finest colors and markings known in the old varieties, together with several new shades. Flowers are of immense size and produced in long spikes, 1 to 2 feet high, almost as large and beautiful as gladiolus, blooming continuously. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.



SWEET ALYSSUM

ALYSSUM

SWEET.—Has little white flowers useful for small bouquets. Its fragrance, while pronounced is very delicate. Makes a pretty border. Pkt. 5c; ¼ oz. 10c; oz. 25c.

LITTLE GEM.—Very dwarf and remarkably uniform, only 3 or 4 in. high and spreads to 12 in. in diameter. Pkt. 5c; ¼ oz. 20c; oz. 50c.

LILAC QUEEN.—A new color in Alyssum which will be very attractive and popular with those who desire a delicate blue plant for borders. Pkt. 10c.

ARCTOTIS GRANDIS

Remarkably handsome annual; much-branched bushes about 2 ft. high. Foliage soft and downy, of whitish color; its flowers, borne on long stems, are large and showy; surface embellished with a narrow yellow zone at base; reverse of petals lilac-blue; disc is light blue with slightly projecting white stamens. Pkt. 10c.

BALSAM

A most beautiful annual. Flowers are most brilliantly colored, very large and double. Packets contain about 50 seeds.

CAMELIA-FLOWERED MIXED.—Very double, resembling camelia in form, of unusual size, perfect shape, and contains all the best colors. Pkt. 10c; oz. 60c.

PEERLESS MIXED.—A new mixture from best foreign and American strains. Flowers are double and all colors. Pkt. 10c; oz. 60c.

ALL VARIETIES MIXED.—A nice mixture of older sort. Pkt. 5c; oz. 35c.

DIRECTIONS FOR SOWING, ETC.—The conditions and requirements of the several species as to soil, moisture, heat, etc., should be studied and observed in culture. We give a few general instructions though more complete directions are printed on seed packets. The soil best adapted to most flowers is light, rich loam, containing enough sand to make it porous. If there is some clay with it the colors will be brighter. Make surface smooth and fine as possible; sow seeds in rows, covering each sort of seed in proportion to its size and you should press the soil down firmly over the seeds. Do not plant any seeds when the ground is wet. Many varieties, such as pansy, verbenas, daisy, hollyhock and the fine greenhouse plant seeds, should be sown early in shallow boxes in the house, in soil consisting of equal parts of fine sand and rich, mellow loam well mixed together and sifted to remove all gravel and lumps. Sow as before directed. Covering the box with glass helps to retain the moisture and keeps the temperature even. Do not keep too wet; when large enough transplant to boxes or beds.

AQUILEGIA

(Columbine)—Free-flowering and deservedly popular hardy plants; bloom profusely through spring into early summer. Hardy perennial.

LONG SPURRED HYBRIDS.—A much more robust species than the ordinary kinds. Colors show wide variations and beauty. Splendid, showy, lasting flowers. Pkt. 15c.

CHRYSANTHA.—The beautiful large flowered variety. Very showy and satisfactory. Pkt. 10c.

COERULEA.—Flowers very large. Bright blue. Pkt. 10c.

DOUBLE VARIETIES MIXED.—A fine assortment. Per pkt. 10c.

AGERATUM

BLUE PERFECTION.—Great improvement over common blue ageratum. Flowers larger and of deeper blue. Blossoms profusely; fine for beds or borders. Pkt. 10c; ¼ oz. 25c.

ALBIFLORUM.—Like above, only white. Pkt. 5c; ¼ oz. 15c; oz. 45c.



ANTIRRHINUM



PEERLESS MIXED BALSAM

YOU WILL BE WELL PLEASED WITH OUR CHOICE FLOWER SEEDS. THEY ARE THE VERY BEST OBTAINABLE.



ASTERS

Of our long list of flowers grown from seed there is now none more popular and generally satisfactory than the Aster, and during the past few years it has grown greatly in the public esteem owing to the great improvements which have been made. For late summer and fall display they have no equal owing to the rich colors of its perfectly double flowers, numerous forms and free blooming. Ask for special circular on How to Grow Asters.

BANNER ASTER COLLECTION

The Beautiful Hues of Old Glory—Red, White and Blue.
One Packet of each for only 25 cents.

SNOWDRIFT.—A paeony flowered type of branching form, with flowers borne on long stems. Everyone appreciates the need of pure white in color harmony. The perfect form and large size flower makes this a favorite. Pkt. 10c.

HEART OF FRANCE.—This adds the brilliancy necessary to complete the beauty of our Banner Aster Collection. It would not be complete, however, without the Crimson to give the brightness and shining touch which a pleasing red conveys. Pkt. 15c.

BANNER BLUE.—A truly royal flower, not only in sturdy character of the plant, but also in the great size and substance of the bloom, and the imperial richness of color in the flower. Of branching type with splendid blooms on long stems. Popular because of its unusual color. Pkt. 10c.

ROYAL ASTER COLLECTION

One packet each of the six beautiful varieties illustrated above and one packet of Royal Red—seven in all—postpaid for only 50 cents.

This is a wonderful opportunity for lovers of asters. We offer five bright colors in the best strain of branching type and in addition the best mixtures of the Crown and Crego types, so that you get a wide range of color and form.

ROYAL LAVENDER.—(No. 2.)—The daintiness of the lavender color delights the eye, while the perfect form and lovely type of the bloom itself makes the Royal Lavender Asters cherished among all lovers of asters. Pkt. 10c.

ROYAL PURPLE.—(No. 1.)—A type of branching aster producing immense large flowers of royal purple on strong, upright stems. Unexcelled as a show flower, either in beds or as cut flowers. Per pkt. 10c.

ROYAL WHITE.—(No. 3.)—A beautiful and distinct variety and the best white. Of refined and faultless form and very freely produced. Fine for pot culture. Per pkt. 15c.

ROYAL PINK.—(No. 4.)—Of the most beautiful bright shade of pink. Show at their best when mingled with darker shades. Of branching type, producing blossoms of perfect shape on long stems. Per pkt. 10c.

ROYAL RED.—Bright cardinal red flowers of very large size. Compact form with plants of strong, robust growth. Branching type like above, and completes the range of colors with its flaming brilliancy. Per pkt. 15c.

CROWN.—(No. 5.)—Center of each flower white; surrounded by broad margin of color—crimson, rose, violet, etc.; flowers are large, freely produced. Beautiful and showy. Mixed colors. Pkt. 10c.

CREGO.—(No. 6.)—A new strain of chrysanthemum flowered asters. Combine the splendid coloring and shading of the Marvel type with the unique form and distinctness of the Harlequin and quilled varieties. Mixed colors. Pkt. 15c.

VARIOUS TYPES OF ASTERS IN MIXTURES

IMPROVED BRANCHING.—This is the most popular florists' strain. It is also a popular type for outdoor growing and is sold in greater quantity than any other. Mixed colors. Per pkt. 10c; ¼ oz. 40c; oz. \$1.25.

SEMPLER'S BRANCHING.—Flowers are large and double, borne on large, stiff stems. A splendid low priced strain of the branching type. Mixed colors. Pkt. 5c.

GIANT COMET MIXED.—Shape differs from all others, resembling the Japanese chrysanthemum. The flowers are from 3 to 4½ inches in diameter, perfectly double. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.

ROYAL MIXED.—This is our choicest mixture of types and colors, made from named varieties and specialties in high grade asters. It will introduce the widest range of colors and the strongest and most vigorous plants. Mixed in our own establishment to safeguard its quality. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.

QUEEN OF THE MARKET.—This is generally conceded to be the best early type of aster. They usually bloom two weeks in advance of the ordinary branching types. Rather dwarf and of spreading habit. Mixed colors. Pkt. 5c; ¼ oz. 30c; oz. \$1.00.

PERFECTION MIXED.—(Truffant's Improved Paeony Flowered.)—A favorite; flowers large and almost perfectly round, incurved petals. Really choice strain which we offer as a low priced mixture of this form. Pkt. 10c.

FINE MIXED.—Mixture of varieties and colors from the fields of the growers. Good seed at a low price. Flowers of many forms and sizes, and this feature makes it very desirable. Pkt. 5c; ¼ oz. 30c; oz. \$1.00.

SINGLE FLOWERING MIXED.—This plant bears a mass of daisy-like flowers. Pkt. 10c.

PERENNIAL MIXED.—Single flowering, hardy, herbaceous plants. If sown early will flower first season. Pkt. 10c.



KOCHIA BURNING BUSH

MEXICAN BURNING BUSH

One of the very best annual border or hedge plants. Known botanically as *Kochia Scoparia*. Grows quickly from seed in the open ground. Plants of rounded or globe-like form shown in illustration, branch freely. Stems are clothed with slender light green leaves. In the fall the ends of the shoots are thickly set with small, bright scarlet flowers, the bushy plants resembling balls of fire. Equally showy planted singly to show the round, ball-like form on all sides or grown in continuous rows. Per pkt. 5c; $\frac{1}{4}$ oz. 20c; oz. 50c.

CACALIA

COCCINEA.—A handsome, free-flowing little plant; owing to peculiar form of the flower is sometimes called Tassel Flower or Flora's Paint Brush. Scarlet bloom. Pkt. 5c.

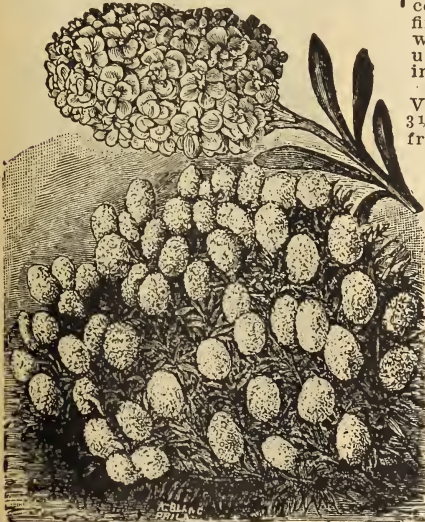
CANDYTUFT

All varieties look best in beds or masses; hardy, easy to cultivate, and blooms profusely. Hardy annuals one foot high.

GIANT EMPRESS.—One of the finest. Of very branching habit and when covered with pure white flowers resembles a floral candelabra. Pkt. 10c.

CRIMSON.—Companion to Giant Empress, and will be appreciated because of its unusual color. Pkt. 10c.

BEST MIXED.—Mixture of all varieties and colors. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 30c



GIANT EMPRESS CANDYTUFT.

BUTTERFLY FLOWER

This large-flowering variety of *Schizanthus* challenges the rare orchids in beauty. Easily grown and makes a bushy plant fairly loaded with rich and various colored flowers. Pkt. 5c.

BRACHYCOME

Also called "Swan River Daisy." Very pretty low-growing plants, fine for borders, rustic work or pot culture, covered during summer with a profusion of cineraria-like flowers. Half-hardy annual. Mixed blue and white. Pkt. 10c.

BROWALLIA

GRANDIFLORA.—Most beautiful of all Browallias. Grow only about 1 ft. high; form dense little bushes covered with abundance of delightful extra large sky-blue flowers. Pkt. 10c.

CALENDULA

Belongs to marigold family. An annual of the easiest culture and quite effective in mass plantings or in beds.

FINE MIXED.—Many nice varieties and when planted together they make a showy bed. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 25c.

**CANNA**

Unquestionably one of the best of bedding plants for the American climate. Their handsome leaves combined with their varied and richly colored flowers have an extremely fine effect. Easily raised from seed which should be filed on one side until the white shows before planting.

FANCY LARGE FLOWERED.—Very large flowering dwarf varieties $3\frac{1}{2}$ feet high. Flower first year from seed. Mixture of finest flowering sorts. Pkt. 10c; oz. 30c.

CLARKIA

A very pretty and desirable hardy annual about 2 feet high. Flowers are white, red, purple, etc., borne in profusion during summer.

SINGLE AND DOUBLE MIXED.—Pkt. 5c.

COLEUS

A very decorative fancy leaved plant. Pkts. contain about 150 seeds.

FINE MIXED COLORS.—Pkt. 20c.

RAINBOW.—Sure to please. Saved from large leaved varieties. Pkt. 25c.

BUSH DOLICHOS

DWARF WHITE.—Bush form of well known Hyacinth bean. Blossoms similar in appearance to sweet pea, but borne on long racemes; pure white and very lovely. Followed by ornamental pods. Pkt. 10c; oz. 40c.

**CALLIOPSIS**

Many most showy flowers are common and grow anywhere without trouble or care. Of these is the calliopsis.

LANCEOLATA.—New Golden Coreopsis. —One of the most showy hardy perennials grown, forming tall plants 2 or 3 feet high, bearing in profusion for a long period during the summer, large flowers of bright golden yellow. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 75c.

SINGLE MIXED.—Mixture of annual varieties. Many shades of yellow, red and brown. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 30c.

NEW DOUBLE.—A beautiful and charming new type of the annual Calliopsis. Pkt. 5c; $\frac{1}{4}$ oz. 20c; oz. 50c.

CARNATION

Finest of the dianthus or pink family. Very fragrant. Our seed unsurpassed.

DOUBLE EXTRA MIXED.—The best greenhouse varieties. Will produce wide variety in markings and colors. Pkt. 10c.

MARGUERITE.—Mixed.—In full bloom about four months after sowing; plants succeed in open garden or pots, and are of vigorous, dwarf, erect growth. Colors, marking and shading wonderful. Pkt. 10c.

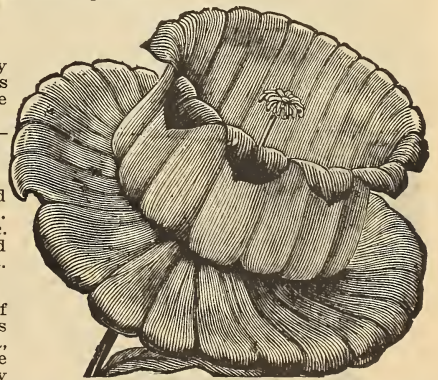
CANTERBURY BELLS

CAMPANULA.—A very pretty perennial, popular and well known. Striking in permanent plantings. Double, single, mixed colors. Pkt. 10c.

CUP AND SAUCER.—A beautiful variety. Bell nearly 4 inches in diameter, presenting form of a saucer, hence its name. Plant is of strong growth, quite as hardy and floriferous as old blue variety, and is elegant and handsome; when in flower blossoms literally hiding plant. Perennial. Mixed colors. Pkt. 10c.

SINGLE MIXED.—A choice mixture of single sorts. Pkt. 10c.

DOUBLE MIXED.—Choicest seed from selected plants. Pkt. 10c.



CUP AND SAUCER CAMPANULA.



GIANT EMPRESS COCKSCOMB

GOLDEN GLOW.—Most attractive. Plants large and produce many handsome flowers 5 to 10 inches in diameter, of bright, rich golden yellow. Per pkt. 10c.

ALL VARIETIES MIXED.—Pkt. 10c.

CHRYSANTHEMUM

CHAMELEON.—A new and distinct annual variety producing very large single flowers in purple, black, crimson, yellow and copper. Pkt. 10c.

NEW DOUBLE ANNUAL.—Extremely variable. Difficult to describe beautiful forms produced. A great variety of colors, markings and pencilings. It is very double, semi-double or single, all equally charming. Pkt. 5c; ¼ oz. 20c; oz. 50c.



COSMOS

A magnificent race of plants growing about 4 to 6 feet high, and in fall literally covered with graceful flowers resembling single dahlias, but better for cutting. Easily raised from seed if sown early.

LADY LENOX.—Beautiful light pink flowers of extra large size. Full, vigorous plants, six to seven feet. Unequaled among annuals for screens and tall borders. Pkt. 10c; ¼ oz. 20c; oz. 50c.

EARLY DAWN MIXED.—Is extremely early, coming in bloom about two months from time of sowing and continuing until frost. The plants have fine, feathery, light green foliage and delicate rose, purple, white and lilac flowers. Mixed colors. Pkt. 10c; ¼ oz. 20c; oz. 60c.

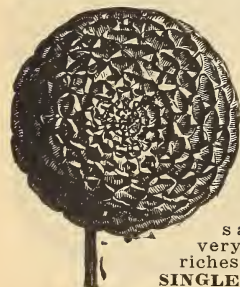
MAMMOTH PERFECTION.—Flowers double the size of the early flowering cosmos. Seed should be sown early in house. Quite late. Pkt. 5c; ¼ oz. 15c; oz. 45c.

DAHLIA

The dahlia is well known, but few are aware that if the seed is sown early in the spring they will bloom the first year.

BEST DOUBLE MIXED.—Our seed is of the finest, saved from large, very double flowers of richest shades. Pkt. 10c.

SINGLE MIXED.—Pkt. 10c.



CELOSIA

For summer beds we know of nothing that produces such showy, brilliant effects. **SPICATA.**—A wonderful new variety of Celosia and far different from any ever before seen. It is a handsome annual, forming upright, well branched pyramids, about 2½ feet in height, and producing at the summit of each branch spikes of flowers of a bright rose color when opening, changing to silvery white; fine for garden or growing in pots. Pkt. 10c.

OSTRICH FEATHER.—Have beautifully curled crimson plumes. Pkt. 10c.

COCKSCOMB

GIANT EMPRESS.—Very handsome; excite the curiosity of visitors more than almost any plant that can be grown. The Empress is the finest and most gorgeous variety; not uncommon for the heads to measure twelve inches in breadth; purple combs and dark bronze foliage. Pkt. 10c.



CHINESE WOOLFLOWER

CELOSIA CHILDSII.—A magnificent garden annual. An odd and showy novelty for the general flower garden. Plants grow about 3 ft. high, the bloom starting early with a globular central head of immense size, while numerous branches are sent out, each bearing a ball of scarlet wool, that last until killed by frost. If flowers are cut before frost and dried in a dark place they will retain their rich, crimson scarlet color all winter. Pkt. 10c.

CENTAUREA

CYANUS.—Called Ragged Sailor, Corn Flower, Blue Bottle, Bachelor's Buttons and Bluet. Favorite annual, flowering freely in almost any situation. Height 2 to 3 feet. Mixed colors. Pkt. 5c; ¼ oz. 10c; oz. 30c.

CYANUS DOUBLE.—A most charming sport from the above. Flowers very large and globular. A continuous bloomer, and becoming quite popular. Our mixture contains a great variety of colors. Pkt. 10c.

GYMNOCARPA.—(Dusty Miller.)—The foliage of this variety is finely cut and silvery. It is perhaps the best white leaved plant for bedding. Pkt. 10c; ¼ oz. 40c; oz. \$1.00.

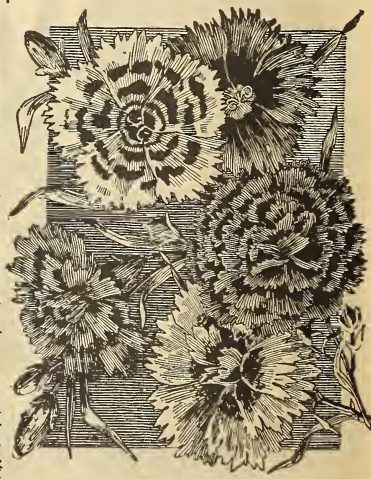
AMERICANA.—The giant of the centaureas. Flowers are four inches across and contain a wide range of colors mixed. Pkt. 10c.

IMPERIALIS MIXED.—A grand improvement on the old favorite Sweet Sultan; long stemmed blossoms of graceful, airy effect, and deliciously fragrant. White, red, blue, lilac, royal purple, etc. Fine for bouquets, vases or as corsage flowers. If cut scarcely opened last ten days. Pkt. 10c; ¼ oz. 25c; oz. 80c.

DAISY

Popular perennials, blooming first year from seed; handsome for borders or pots.

BEST DOUBLE MIXED.—Low growing sorts for massed beds or borders. Known as the English Daisies. Pkt. 10c.



ORIENTAL MIXED DIANTHUS

DIANTHUS

Dianthus, or Chinese Pinks furnish abundance of gay and pretty flowers until frozen. Quite as pretty for pot plants in house as carnations. Bloom quickly.

ORIENTAL OR JAPANESE MIXED.—Markings and colors are rich and brilliant. A few blooms will be solid colors but most of them will show wonderful variations, striped, blotched and banded. Colors range from white to deep crimson and maroon and produce profusely and continuously. Pkt. 10c; ¼ oz. 30c; oz. 80c.

FIREBALL.—Beautiful, only 10 to 15 inches in height. Flowers are perfectly double and color a rich velvety blood red. Plants begin to flower shortly after coming up and continue till severe frost. Effective for garden beds. Pkt. 10c.

SNOWBALL.—Fit companion to above. Flowers large, pure white, double, finely fringed, perfect form. Makes a fine plant for borders or beds. Pkt. 10c.

DOUBLE DIADEM PINK.—A superb, large double flower, is hieroglyphically marked, like the original Chinese pinks, in the middle down to the base of each petal. Magnificent in color. Pkt. 10c.

MIXED VARIETIES AND COLORS.—Pkt. 5c; ¼ oz. 15c; oz. 50c.

AFRICAN GOLDEN DAISY

(Dimorpotheca Aurantiaca.)

This showy annual comes from South Africa. Blossoms 2 to 3 inches in diameter, a peculiarly rich, glossy orange gold color, produced quickly on sturdy plants.

HYBRIDS MIXED.—Improved type of original form in mixed colors. Pkt. 10c.

ESCHSCHOLTZIA

(California Poppy)—Easy to grow, brilliant in color; bloom under any condition. **CRIMSON.**—This choice novelty is the result of nine years careful selection from a chance sport in a bed of yellow Eschscholtzia. Flower bright crimson. Pkt. 10c.

GOLDEN WEST.—A giant flower of rich golden yellow color, some specimens having a dark orange blotch in the center. Pkt. 10c; ¼ oz. 25c; oz. 50c.

SINGLE MIXED.—The common California poppy. Fine form, deep golden color. Pkt. 5c; ¼ oz. 10c; oz. 35c.

ELECTRIC LIGHT PLANT

A sturdy, bushy plant of about 4 feet, covered constantly with large spikes of flowers 6 to 9 in. long which are pure white at base and range from rose to bright red at apex. Grows readily from seed. Showy and ornamental. Pkt. 10c; ¼ oz. 25c; oz. 75c.

EUPHORBIA

VARIEGATED.—"Snow on the Mountain." Strong growing annual suitable for screens. Foliage ornamental, veined and margined white. Pkt. 5c.

GERANIUM

GOOD VENTURE.—Easily raised from seed, which frequently reward the cultivator with new varieties. Start early in the house; bloom the first summer in the garden. Pkt. (about 40 seeds), 15 cents.



GAILLARDIA GRANDIFLORA

HOLLYHOCKS

EVERBLOOMING ANNUAL.—A most showy flower. Started in the house in March and set out in May it blooms in July. Blooms until killing frosts in fall. Sown in the open ground in April it blooms in August. Of vigorous growth, and stalks are fairly loaded with large flowers. Colors varied. Double, semi-double, single. Pkt. 10c; ¼ oz. 35c; oz. \$1.00.

CHATER'S PRIZE DOUBLE MIXED.—Magnificent double flowers 3 to 4 in. across, of the brightest colors; flowers beautiful and perfect, massed completely around spikes. A mixture of all colors. Pkt. 10c; ¼ oz. 50c; oz. \$1.50. We can also supply Chater's Prize hollyhocks in separate colors; white, pink, yellow, scarlet, or maroon, as preferred. Pkt., any one color, 10c.

HIBISCUS

CRIMSON EYE.—Dark red stems and foliage. Flowers often measure 20 inches in circumference, pure white, with large spot of deep velvety crimson in center. Blooms first year. Pkt. 10c.

MEHAN'S MALLOW MARVEL.—Produces wonderful flowers 8 to 10 inches in diameter. Colored from pure white to fiery red. Splendid for permanent planting. Pkt. 10c; ¼ oz. 40c; oz. \$1.00.

GOLDEN BOWL.—Enormous flowers 5 to 6 inches across, canary color, with large, black center. This variety is an annual and does not live over winter. Pkt. 10c.

**FOXGLOVE**

A showy perennial now planted extensively for permanent back-grounds, borders, clump effects.

GLOXINIAFOLIA.—Grow 4 to 5 feet high, producing large gloxinia-like flowers of many shades and markings. Pkt. 10c.

MONSTROSA MIXED.—A distinct type, the striking feature of which is that a large bell-shaped blossom tops each spike. Pkt. 10c.

ICE PLANT

A handsome and curious plant for hanging baskets, rockwork and vases. The leaves and stems appear as though covered with crystals. Brilliant in sunshine. Flower white and pink. Pkt. 5c.



CHATER'S PRIZE HOLLYHOCK



FOUR O'CLOCK

FOUR O'CLOCK

(Mirabilis).—Marvel of Peru, or Four O'Clock. A most brilliant, showy annual. Their compact growth, rich, glossy leaves and profusion and diversity of bloom, present a gorgeous sight in the afternoon.

MIXED COLORS AND VARIETIES.—A fine assortment. Pkt. 5c; oz. 20c.

GAILLARDIA

Blanket Flower. Exceedingly beautiful annuals, very showy plants, 1 to 2 feet high. Grown in mass are effective.

PERFECTION.—A double flower, round as a perfect ball, in most varied and pleasing colors. Pkt. 10c; ¼ oz. 20c; oz. 50c.

GRANDIFLORA.—A Splendid new perennial variety, with very large flowers, dark crimson centers, marked with rings of brilliant colors. Pkt. 10c; ¼ oz. 20c; oz. 50c.

GRASS PINKS

DOUBLE CLOVE PINKS.—A fine type of the pretty clove scented flowers so much loved by our grandmothers. Their fragrance quickly noticed in passing yards where grown. Colors range from pure white to dark pink. A hardy perennial. Pkt. 10c; ¼ oz. 35c.

GODETIA

Handsome, showy annual about one foot high, of dwarf, compact growth; bear freely flowers 3 to 4 in. across, of exquisite colors. Mixed varieties and colors. Pkt. 5c.

GYPHOPHILA

Sometimes called "Baby's Breath."

ELEGANS.—Mixed colors. Pkt. 5c.

PANICULATA.—White. Hardy perennial. Pkt. 10c.

HELIOTROPE

A great favorite for their beauty and fragrance; are well suited for beds or borders, where they bloom in summer and may be potted for winter blooming.

CALIFORNIA MAMMOTH.—A grand new variety producing immense flowers. Pkt. 15c.

MIXED VARIETIES.—Mixed colors. Pkt. 10c.



NEW MAMMOTH FLOWERING HELIOTROPE

LANTANA

BRAZILIAN BEAUTY.—Specially fine strain consisting of a mixture of choicest flowered sorts. Pkt. 10c.

LOBELIA

ERINUS.—Handsome trailing annual. Flowers blue. Fine in vases and hanging baskets. Pkt. 10c.

COMPACTA.—A dwarf variety. Flowers darker hue than above and cover plant; fine for carpet bedding or border. Pkt. 10c.

LINUM

GRANDIFLORUM RUBRUM.—(Scarlet Flax.)—A showy annual for flower beds and masses; crimson scarlet flower. Pkt. 5c; ¼ oz. 15c; oz. 50c.

PERENNIAL.—A beautiful hardy perennial sending up numerous stems, clothed with a small, hair-like foliage. Pkt. 10c; ¼ oz. 25c; oz. 80c.

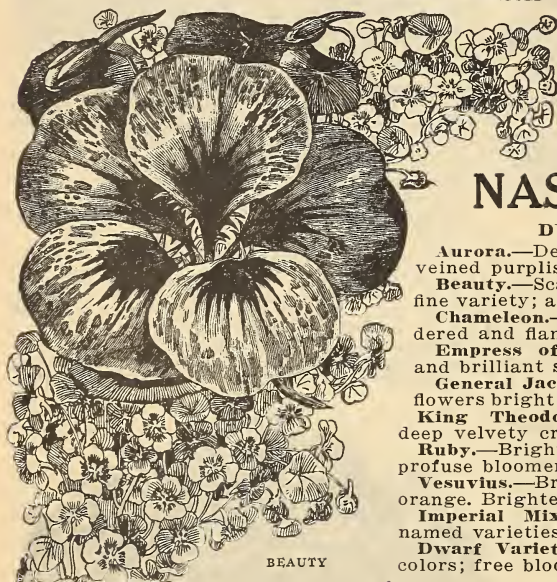
MARIGOLD

A general favorite for planting in mixed beds and informal gardens, as they produce such great numbers of brilliant colored flowers.

PRIDE OF THE GARDEN.—These are greatly improved in size and doubleness of flowers. Double mixed. Pkt. 5c; ¼ oz. 10c; oz. 30c.

DWARF FRENCH.—Double mixed. Pkt. 5c; ¼ oz. 10c; oz. 30c.

ELDORADO.—Immense double flowers, orange shade. 3 feet high. Pkt. 10c.



ELDORADO MARIGOLD

MACHET
MIGNONETTE**NASTURTIUMS****DWARF VARIETIES**

Aurora.—Deep chrome yellow, blotched and veined purplish carmine. Pkt. 5c; oz. 20c.

Beauty.—Scarlet splashed canary yellow. A fine variety; attractive flower. Pkt. 5c; oz. 20c.

Chameleon.—Crimson, gold and bronze, bordered and flamed. Pkt. 5c; oz. 20c.

Empress of India.—Dark purplish leaves and brilliant scarlet flowers. Pkt. 5c; oz. 20c.

General Jacqueminot.—Named for the rose; flowers bright crimson scarlet. Pkt. 10c; oz. 25c.

King Theodore.—The "black" nasturtium; deep velvety crimson. Pkt. 5c; oz. 20c.

Ruby.—Bright and brilliant carmine color; profuse bloomer. Pkt. 5c; oz. 20c.

Vesuvius.—Bright salmon pink, veined deep orange. Brightest shade in list. Pkt. 5c; oz. 20c.

Imperial Mixed.—Mixed by us from best named varieties. Pkt. 10c; oz. 25c; ¼ lb. 75c.

Dwarf Varieties Mixed.—A nice mixture of colors; free bloomer. Pkt. 5c; oz. 25c; ¼ lb. 60c.

CLIMBING VARIETIES

Firelight.—Brilliant cardinal red, brightest and most attractive color. Pkt. 10c; oz. 30c.

Midnight.—Dark brownish red; profuse bloomer. Fine in mixed beds. Pkt. 10c; oz. 30c.

Moonlight.—Pale straw or lemon yellow, a delicate, soft shade. Pkt. 10c; oz. 25c.

Sunlight.—Rich brilliant yellow color, flowers immense size; crinkled. Pkt. 10c; oz. 30c.

Twilight.—Lovely delicate flower of salmon rose or pink. Pkt. 10c; oz. 25c.

Caprice.—Changeable colors, often a dozen different shades on a plant. Pkt. 5c; oz. 20c.

Madam Gunter's Hybrids.—Mixture of many colors; climbing. Pkt. 10c; oz. 25c; ¼ lb. 50c.

Tall Varieties Mixed.—A good mixture of climbing sorts. Pkt. 5c; oz. 20c; ¼ lb. 60c.

LARKSPUR

One of the most useful of annual flowers for beds or borders or for the informal garden. Flowers are borne in compact spikes, color red, white and blue, and are showy and desirable in any situation. Sow early in open ground.

DWARF ROCKET.—Grow about two feet in height. Mixed colors. Pkt. 5c; ¼ oz. 15c; oz. 40c.

TALL ROCKET.—Three to four feet high, adapted to either borders, beds or among perennial plantings. Pkt. 5c; ¼ oz. 15c.

PERENNIAL LARKSPUR

BUTTERFLY.—A distinct variety, growing about 18 inches high, with fine feathery foliage, and producing freely spikes of large blossoms of intense gentian blue. Pkt. 10c.

FORMOSUM.—The standard form of perennial larkspurs and are most showy and useful in permanent plantings, as they produce splendid spikes of flowers all summer. Blooms first year if sown early. Mixed colors. Pkt. 10c.

GOLD MEDAL HYBRIDS.—A splendid strain. Immense spikes with large flowers of many shades. Pkt. 15c.



LARKSPUR

MIGNONETTE

SWEET SCENTED.—The fragrance of the Mignonette makes it indispensable for bouquets and cutting. Sow seed early and they will commence blooming the first of June. Pkt. 5c; oz. 25c.

ALLEN'S DEFIANCE.—Valuable variety with mammoth spikes 12 to 15 inches long, more fragrant than any other. Florets of immense size and the cut flower often keeps three weeks. Pkt. 10c; ¼ oz. 20c; oz. 60c.

MACHET.—Makes a pretty and fragrant pot plant. Distinct variety of great merit. Vigorous dwarf growth with very large spikes of deliciously scented red flowers. Pkt. 5c; ¼ oz. 15c; oz. 50c.

MYOSOTIS, OR FORGET-ME-NOT

PALUSTRIS.—True Forget-Me-Not. A perennial. Blooms first year from seed. Pretty plants with neat little star-shaped blue flowers. Pkt. 10c.

VICTORIA.—The best variety for pot culture. Of dwarf, globular habit; beautiful sky-blue flowers with center double. Pkt. 10c.

NICOTIANA

AFFINIS.—Plant is covered with large, white, star-shaped flowers which, after being cut, remain perfect a week. A few plants perfume the whole garden. Pkt. 10c.

SANDERAE HYBRIDS.—Beautiful rosy carmine color and blooms freely. Shades of purple, pink, red, salmon, violet and white. Grows about 2 feet high, branches freely and loaded with flowers. Sow seeds early in the house and transplant in May. Mixed colors. Pkt. 10c.

NIGELLA (Love in the Mist)

MIXED COLORS.—Hardy annuals about 1 ft. high; fine cut leaves and handsome flowers. Blooms early. A very pretty flower. Double flowers, blue, white and purple, beautifully veiled with feathery, delicate foliage. Pkt. 5c; ¼ oz. 10c; oz. 25c.

MISS JEKYLL.—A large and profusely blooming variety with bright sky-blue flowers and fine fern-like foliage. Taller than most kinds. Pkt. 10c; ¼ oz. 20c; oz. 60c.

Brilliant Nasturtium Collection

13 Varieties, 13 Colors—Both Dwarf and Climbing Kind.

The finest collection we have ever offered. **Aurora** (Dwarf), **Beauty** (Dwarf), **Chameleon** (Dwarf), **Empress of India** (Dwarf), **General Jacqueminot** (Dwarf), **King Theodore** (Dwarf), **Ruby** (Dwarf), **Vesuvius** (Dwarf), **Sunlight** (Climbing), **Midnight** (Climbing), **Moonlight** (Climbing), **Twilight** (Climbing), **Firelight** (Climbing). 13 varieties 1 pkt. each, 60c; 13 varieties 1 oz. each, \$1.50, postpaid.

THERE IS SPLENDID OPPORTUNITY FOR HOME ADORNMENT IN THE USE OF COMMON ANNUALS IN SOLID OR MIXED BEDS.

Directions for growing pansies will be mailed free on request.

PANSIES

Pansies are a specialty with us, and we use the greatest care in growing and importing the best strains. Packets contain 100 to 125 seeds.

PRETIOSO.—A new strain of the world's best grower, imported only by us, and offered under special arrangements. Widest range of colors, most diversified markings, and velvety substance of any mixed pansies now offered. They are great, large, fine blooms, satiny finish, brightest colors, which really shine with lustre. Pkt. 15c; ¼ oz. \$2.50; oz. \$8.00.

AMERICAN GIANT.—This strain is of strong, robust, luxuriant growth and produces magnificent immense flowers. Comprise practically all shades and markings known. Grown expressly for us by a careful and enthusiastic pansy specialist who grows nothing else. Pkt. 25c; ¼ oz. \$4.00; oz. \$12.00.

MASTERPIECE.—Distinct from all others in form of flowers, the border of every petal conspicuously undulated and curled. Flowers are very large. Pkt. 15c.

GIANT TRIMARDEAU.—Flowers of very large size. Each flower marked with three large blotches or spots and stands well above foliage. Choice mixed colors. Pkt. 15c; oz. \$6.00.

SEPARATE COLORS.—We can furnish Giant Flowered Pansies in the following separate colors: White, blue, yellow, red or black. Pkt., any color, each 15c; oz. \$6.00.

FINE MIXED.—Many good sorts. Pkt. 10c; ¼ oz. 75c; oz. \$2.50.

POPPIES

AMERICAN FLAG.—Flowers extra large, very double, snow white, bordered with scarlet, very showy variety. Pkt. 5c.

DOUBLE CARNATION.—Slendid assortment of best double carnation flowered sorts. Pkt. 5c; ¼ oz. 15c; oz. 40c.

SANTA ROSA MIXED.—Improved Shirley poppy; unusually large flowers of remarkably clear colors, including new striped salmon and blush shades. Petals crumpled. Pkt. 5c; ¼ oz. 25c; oz. 75c.

PAEONY FLOWERED.—Is a robust variety 2 ft. high, bears very large flowers, round, smooth, double, of exceeding brilliancy. Mixed colors. Pkt. 5c.

ANNUAL VARIETIES MIXED.—Single and double. Pkt. 5c; ¼ oz. 15c; oz. 40c.

PERENNIAL POPPIES

ORIENTAL HYBRIDS.—For brilliancy nothing equals these. Flowers enormous size, often over 6 in. in diameter; colors from soft flesh and rose to the most brilliant scarlet and richest maroon purple. Hardy. Pkt. 10c.

ICELAND.—Flowers first year from seed. Colors purest white to deepest orange scarlet. Pkt. 10c.

PENTSTEMON

FINEST MIXED.—Hardy perennial; blooms first year. Many spikes of Gloxinia-like flowers 2 inches across; crimson, white, rose, purple, etc., beautifully edged and marked. Pkt. 10c.

GIANT FANCY
PETUNIA



PORTULACA

GRANDIFLORA SINGLE MIXED.—Also known as rose moss. It forms a brilliant, striking bed of color, on bright, sunny days, and blooms brightest in the mid-day hours. Very dwarf low-growing plants, forming a mat. Pkt. 5c; ¼ oz. 25c; oz. 75c.

DOUBLE MIXED.—These old favorite flowers are double as a rose, brilliant with many shades of color, white, yellow, crimson, scarlet, and pink. Pkt. 10c; ¼ oz. 75c.

PYRETHRUM

GOLDEN FEATHER.—Beautiful golden-leaved foliage plants of special value for borders. Pkt. 10c.

ROSEUM HYBRIDUM.—Perennial resembling cosmos, in colors from light pink to deep red with large yellow center. Pkt. 10c.



SANTA ROSA
POPPIES

SPLENDID PETUNIAS

No garden is complete without a bed of elegant petunias. They commence flowering early and continue a mass of bloom until killed by frost; easily cultivated, requiring rich soil and a sunny situation.

ROSY MORN.—A beautiful new petunia of clear rosy pink color. Splendid for window boxes. Pkt. 15c.

GIANT FANCY.—The flowers are exquisitely ruffled or fringed on edges, and of enormous dimensions (4 to 5 in. across), unlimited varieties of colors, marking, veinings, blotchings and stripings, in the most grotesque and beautiful combinations. Some colors are rich and gorgeous, others are of lovely delicate shades. Pkt. 25c.

DOUBLE INIMITABLE.—Splendid mixture. Our seed is the best imported stock, and will produce about 25 per cent of fine double flowering plants. Pkt. 25c.

LITTLE PET.—(Howard's Star.)—These small flowered, compact growing, free blooming petunias are round, bushy little plants about 8 in. high, covered for months with beautiful flowers which have a distinct five-pointed star in the center. Pkt. 15c.

GRANDIFLORA MIXED.—Very large, elegant flowers, with most beautiful shades of crimson, white, rose, maroon, etc., blotched, striped, veined, marked and fringed. Per pkt. of 200 seeds 15c.

INIMITABLE MIXED.—Large flowers with clear, bright colors. Extra fine striped and blotched. Pkt. 5c; ¼ oz. 60c; oz. \$2.00.

IT IS DESIRABLE TO PURCHASE DOUBLE PETUNIA PLANTS IF YOU WANT THEM ALWAYS TRUE TO NAME AND COLOR.

PHLOX DRUMMONDI

If we could have but one flower for our garden that one would be the Phlox. A brilliant, almost dazzling show; continual bloom.

FIREBALL.—Brilliant, dazzling scarlet. Growth is dwarf and compact; fine for bed effect. Pkt. 10c; ¼ oz. 50c; oz. \$1.50.

GRANDIFLORA ALBA.—Fit companion for Fireball. Flowers very large, pure white. Pkt. 10c; ¼ oz. 50c; oz. \$1.50.

GRANDIFLORA MIXED.—Large-flowering strain. Colors white to nearly black, including pink, red, violet, crimson, purple, yellow, blue, scarlet and brown, striped and blended in an indescribable manner. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.

PERENNIAL MIXED.—Splendid hardy plants which bloom continuously after the second year. Pkt. 10c.

GRANDIFLORA
MIXED PHLOX

**RAINBOW CORN**

(Striped Japanese Maize.)—Offered as a novelty by some seedsmen. Grows 5 to 6 feet high and has alternate foliage, the leaves being very long and 2 to 3 inches wide. Desirable for groups or ribbon beds, or back border to a lawn. Pkt. 5c, oz. 15c.

FAIRY ROSES

Remarkable beautiful little roses only about an inch across, usually semi-double. Plants 10 to 15 in. high, blooming from May until frost. Nice pot plants. Pkt. 10c.

RICINUS

Castor oil plant. Stately foliage plants. Said to keep out moles.

CAMBODGIENSIS.—Has large palm-like leaves of darkest reddish maroon, covered with a bright bronzy luster. Have large red veins. Seed pods fiery red. Pkt. 5c; oz. 25c.

ZANZIBARENSIS.—Grows to a height of 12 to 14 feet, with leaves 2 to 4 feet across. Pkt. 5c; oz. 15c.

SANGUINEUS TRICOLOR.—Blood red stalk; very attractive, giving tropical effect in clumps or screens. Pkt. 5c; oz. 15c.

MIXED VARIETIES.—Mixtures of the above and many other choice sorts. Pkt. 5c; oz. 10c.

COMMON.—The ordinary Castor Bean. Pkt. 5c; oz. 10c; lb. 50c. Ask for price in quantity.

SALVIA

SPLENDENS.—Free bloomers. Brilliant scarlet. One of the most satisfactory bedding plants. Pkt. 10c; ¼ oz. 75c.

MRS. C. N. PAGE.—Dwarf, free blooming sort. Much earlier than Splendens and brighter color. Pkt. 15c; ¼ oz. \$1.00.

SCABIOSA

LARGE FLOWERED MIXED.—Handsome border plant, producing double flowers in variety of shades and colors; splendid for bouquets. Pkt. 5c; ¼ oz. 15c; oz. 50c.



MAMMOTH VERBENAS

SENSITIVE PLANT

Very pretty and curious plant, its leaves closing when touched. Seeds start slow and it is best to start them in boxes; cover shallow and see they do not dry out; it makes a good house plant for the winter and pleases the children. Pkt. 10c.

SALPIGLOSSIS

Plants about 18 in. high, bearing through the season large flowers 3 to 4 in. across, of beautiful colors.

NEW VARIEINED

—Surface soft and velvety, colors marvelous, ranging from pure white to dark yellow, dark red and purplish black, including blue, velvety plum color, maroon, crimson, brown, gold and yellow, white, dark purple, black, and brilliant scarlet, beautifully veined and mottled. Pkt. 10c.

**WAHLENBERGIA**

A perennial plant blooming the first year if sown early in the open ground. Flowers 2½ to 3 inches in diameter, of light blue, lavender and white. Pkt. 10c.

WALLFLOWER

Greatly prized for their exquisite fragrance. Grow in long, brilliant colored spikes of flowers.

EARLY FLOWERING MIXED.—Flowers early the first season. Double and single mixed colors. Pkt. 10c.

VERBENA

Deservedly a universal favorite. A constant bloomer and if grown from seed has a sweet fragrance.

NEW CENTURY MAMMOTH.—The most beautiful colors, largest flowers and largest truss which often measures over 9 inches in circumference while single florets are as large as a twenty-five cent piece; more vigorous than the ordinary. Pkt. 10c; ¼ oz. 35c; oz. \$1.25.

CANDIDISSIMA.—Large trusses of pure white flowers. Pkt. 10c; ¼ oz. 40c; oz. \$1.00.

BLUE MIXED.—Blue, purple and lavender sorts. Pkt. 10c; ¼ oz. 40c; oz. \$1.00.

DEFIANCE.—A true scarlet, large and extra fine. Pkt. 10c; ¼ oz. 35c; oz. \$1.00.

CHOICE MIXED.—From the finest foreign collection of named sorts. Pkt. 5c; ¼ oz. 20c; oz. 75c.

BANNER VERBENA COLLECTION

Red, White and Blue.—One packet each of our national colors of seed from the mammoth types. Banner Collection 25 cents, postpaid

ZINNIA

Strong growing, hardy and elegant plants, colors are bright and varied and range from pure white to deep purplish crimson.

ROBUSTA GRANDIFLORA.—Strong growth and large flowers. Grows 3 ft. high and produces flowers 5 in. across. In separate colors; white, yellow, orange, pink, scarlet, crimson; or in mixed colors. Pkt. 10c; ¼ oz. 25c; oz. 75c.

SPLENDOR.—This splendid strain of Zinnia is grown on our Altoona farms with special care. The finest colors and blooms and plants we have seen. Pkt. 10c; ¼ oz. 25c; oz. 75c.

ELEGANT DOUBLE MIXED.—Pkt. 5c; ¼ oz. 15c; oz. 50c.

PIGMY OR LILIPUT.—Plants are small and of bushy growth, each one bearing scores of beautiful little blossoms. Pkt. 10c.

SHASTA DAISY

ALASKA.—A perennial, blooming better and more abundant each season. Flowers about 4 inches in diameter, with three or more rows of pure white petals on single, stiff, wiry stems nearly 2 feet long. Pkt. 10c.

STOCKS

PERPETUAL WHITE.—(Princess Alice or Cut and Come Again.)—Sown early will bloom from May to November. Pkt. 10c.

PERPETUAL MIXED.—A mixture of colors. Pkt. 10c.

EARLY LARGE FLOWERING DWARF.—Very popular. Variety of colors. Pkt. 10c; ¼ oz. 40c; oz. \$1.00.

SWEET WILLIAM

SINGLE MIXED.—Hardy plants 1 ft. high, of extreme richness and variety of color; sweet-scented. Per pkt. 5c; ¼ oz. 20c; oz. 75c.

DOUBLE MIXED.—Florets double and full centered. Pkt. 10c; ¼ oz. 30c; oz. 75c.

ANNUAL.—Quick growing type. Pkt. 10c.

SUNFLOWER

The sunflowers are attractive for screens, borders, clumps and among shrubbery.

DOUBLE CHRYSANTHEMUM FLOWERED.—Dwarf growing 4 to 6 feet; beautiful double flowers. Pkt. 10c.

GLOBE OF GOLD.—A new double, about 4 feet high; branching stems; in bloom it seems a mass of golden yellow. Pkt. 10c; oz. 25c.

EXCELSIOR BRANCHING.—Has a single flower about 5 inches across producing a pyramid of bloom. Pkt. 5c.

RAINBOW SUNFLOWER.—Grows 5 to 8 feet, branching freely. Colors range in shades of red. Pkt. 10c.

PEERLESS MIXED.—Mixture of many kinds. Pkt. 5c.



ZINNIA

SPENCER SWEET PEAS

Send for free circular on How to Grow Sweet Peas

The distinguishing characteristics of the type is the wavy, orchid-like appearance of the blossoms. They are strong, robust in growth, with extra large flowers of exquisite, delicious beauty. If you want sweet peas for cut flowers plant the Spencers. We offer only a few of the many varieties in existence, choosing those which have become fixed in form and color and which will reproduce without deviation. We offer you a beautiful display of varied colors.

AMERICA.—Ivory white with distinct stripes of bright crimson. Of the best Spencer type with three or four lovely large flowers on each stem. Pkt. 10c; oz. 40c; ¼ lb. \$1.25.

BARBARA.—Salmon color without markings or shading, and makes a remarkably attractive bouquet without any other color. Pkt. 10c; oz. 40c; ¼ lb. \$1.25.

ELFRIDA PEARSON.—One of the largest flowers yet introduced. Color is pink, of a most lovely shade, and we offer it as the best pink of Spencer class. Pkt. 10c; oz. 30c; ¼ lb. \$1.00.

FIERY CROSS.—The most unique color in sweet peas. The standard is bright orange scarlet while the wings are rich orange cherry shade, making a flower of flaming color and unusually attractive. Pkt. 10c; oz. 40c; ¼ lb. \$1.00.

FLORENCE MORSE.—Very delicate rose color, shaded a little darker pink at edges. One of the best; large, open, wavy flowers. Pkt. 10c; oz. 30c; ¼ lb. \$1.00.

KING MANOEL.—The finest type of Spencer form in size and manner of growth. Stems are long, strong, and carry three or four fine blossoms of deep, rich maroon. Pkt. 10c; oz. 35c; ¼ lb. \$1.00.

KING WHITE SPENCER.—One of the finest types of the Spencer class and the best white variety. Flowers deeply waved and curled. Color pure white. Pkt. 10c; oz. 40c; ¼ lb. \$1.00.

PRIMROSE SPENCER.—Undoubtedly the richest coloring and finest quality of primrose shade. Equally as finely waved as the other Spencers and of strong, robust character. Pkt. 10c; oz. 30c; ¼ lb. \$1.00.

R. F. FELTON.—Color is soft, pleasing lavender with wings of French gray, making a dainty and lovely blossom. Combines extreme loveliness with strength and vigor. Pkt. 10c; oz. 30c; ¼ lb. \$1.00.

ROYAL PURPLE.—The color is so rich that it will astonish with its beauty. It is a warm rosy purple, the younger flowers having a softer tone; flowers of immense size. Pkt. 10c; oz. 40c; ¼ lb. \$1.25.

SUNPROOF CRIMSON.—A splendid crimson color and selected as the most vigorous variety of this shade. Will stand summer heat without fading or drooping. Pkt. 10c; oz. 30c; ¼ lb. \$1.00.

WEDGEWOOD BLUE.—We give this preference among blue sorts because of its superiority. It is a beautiful, lively blue in its entirety. Pkt. 10c; oz. 40c; ¼ lb. \$1.25.

SPENCER MIXED.—This is a choice mixture of the Spencer types and varieties. Contains many sorts not named in our list. Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50.

GRANDIFLORA SWEET PEAS

The sweet peas here offered are of the grandiflora class, and are grown for us by the best specialists in America. The stocks from which they are produced are not surpassed by any, and we know from the reported experience of our friends that the results from planting our sweet peas are most satisfactory. We offer what we know to be the cream of the list.

IMPERIAL MIXED.—Many of the best sorts carefully selected so as to get the proper proportion of each color in assortment. Grown separately and mixed afterward. Makes the choicest mixture ever offered. We are sure our customers will be pleased with them. Pkt. 10c; oz. 25c; ¼ lb. 65c; lb. \$2.00.

GRANDIFLORA MIXED.—This mixture is grown as a mixture in the field, and is made from surplus stocks of varieties and seeds as are grown in trial plots together with the seeds from fields. Contains a wide range of colors. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50.

EARLY FLOWERING MIXED.—A new type of sweet peas which bloom much earlier than either Grandiflora or Spencer kinds, and will be popular. A splendid mixture of colors. Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50.

AMERICA.—Clear scarlet on a white ground. Pkt. 5c; oz. 20c; ¼ lb. 60c.

BLACK KNIGHT.—Rich, glossy maroon. Immense bold, attractive flowers borne in greatest profusion. Pkt. 5c; oz. 20c; ¼ lb. 60c.

DOROTHY ECKFORD.—The largest flowered white. Great bloomer. Pkt. 5c; oz. 20c; ¼ lb. 60c.

EXTRA EARLY BLANCHE FERRY.—Earliest of all. Beautiful light rose and white. Delicately handsome. Pkt. 5c; oz. 20c; ¼ lb. 60c.

KING EDWARD VII.—A true giant-flowered variety; brighter than other dark varieties, in fact, the best dark red in existence. Pkt. 5c; oz. 20c; ¼ lb. 60c.

LADY GRISEL HAMILTON.—Light lavender with azure blue wings. Pkt. 5c; oz. 20c; ¼ lb. 60c.

LOVELY.—The most beautiful shades of soft shell-pink, shading to faint rose at outer edges. Pkt. 5c; oz. 30c; ¼ lb. 60c.

LOTTIE ECKFORD.—Standard rose, the wings primrose shaded and spashed rose. Pkt. 5c; oz. 30c; ¼ lb. 60c.

MRS. KENYON.—A decided novelty in sweet peas, being a very pretty large-flowered sort, of a handsome primrose or yellow color. An attractive new color. Pkt. 5c; oz. 20c; ¼ lb. 60c.

NAVY BLUE.—A great novelty; the darkest and truest blue of any variety. Free bloomer. Pkt. 5c; oz. 30c; ¼ lb. 60c.

ROYAL PURPLE.—Striking dark flower. Pkt. 5c; oz. 20c; ¼ lb. 60c.

ROYAL ROSE.—A most beautiful clear rose. Pkt. 5c; oz. 20c; ¼ lb. 60c.

PERENNIAL SWEET PEAS.—(Lathyrus.)—A very popular perennial variety and it should be more generally used. Mixed colors. Blooms second year. Pkt. 10c; oz. 60c.

Diversity Collection

12 Packets—12 Colors
\$1.00 Postpaid.

One packet of each of the choicest Spencers, as named and described on this page:

America
Barbara
Elfrida Pearson
Fiery Cross
Florence Morse
King Manoel
King White
Primrose Spencer
R. F. Felton
Royal Purple
Sunproof Crimson
Wedgewood Blue
One packet of each \$1.00.
One ounce of each \$3.00.

Grandiflora Collection SWEET PEAS

Twelve full size packets. Twelve beautiful kinds, all different, all named, including some desirable varieties not listed in our catalog. Postpaid 50c.

StimUplanT
Makes a
Wonder Garden



IMPERIAL MIXED SWEET PEAS

GROW YOUR SWEET PEAS ON FOUR-FOOT POULTRY NETTING. IT AFFORDS THE BEST SUPPORT FOR THEM

ORNAMENTAL VINES

Nothing adds more to homelike appearance of a place than the pleasant shade of vines over the porches, and climbers on trellises, trees, fences, and outbuildings.

BALLOON VINE.—A pretty, rapid growing climber, succeeding best in a warm situation. Flowers white, followed by balloon-like seed pods. Pkt. 5c, oz. 30c.

BRYANOPSIS.—Yellow flowers, followed by pretty cherry-like green fruits which change to bright scarlet, marbled with white. Pkt. 10c, oz. 40c.

COBOEA SCANDENS.—A magnificent climber of rapid growth and beautiful blue flowers. The seed should be planted edgewise. Pkt. 10c, ¼ oz. 50c.

CANARY BIRD FLOWER.—Delicate, finely-cut foliage and curious bright yellow flowers, resembling the canary bird in shape and color. Pkt. 10c, oz. 25c.

CARDINAL CLIMBER.—A hybrid of Cypress Vine and Morning Glory. Grows 20 to 30 feet high, bright cardinal flowers 1 to 1½ inches in diameter. Of merit for porch and arbor uses. Pkt. 10c.

CYPRESS VINE.—A beautiful rapid climber with delicate dark green foliage and an abundance of star-shaped scarlet and white blossoms. Mixed colors. Pkt. 5c, oz. 40c.

DOLICHOS.—(Hyacinth Bean)—Mixed Colors.—A rapid growing annual climber flowering freely, in clusters followed by ornamental pods. Pkt. 5c, oz. 15c.

Daylight.—Pure white flowers standing out boldly from the rich foliage. Pkt. 5c, oz. 30c.

Darkness.—A good companion for above. Both flowers and seed pods are a purplish red. Pkt. 5c, oz. 20c.

GOURDS.—Ornamental Mixed.—A mixture of the odd-shaped and fancy-colored sorts. Contains the most popular and handsome foreign varieties. Pkt. 5c, oz. 25c.

JONAH'S GOURD.—Grows with wonderful rapidity. Leaves quite large, flowers pure white, 2 or 3 inches in diameter. Fruits of great length, resembling Hercules Club. Pkt. 12 seeds 10c, 3 for 25c.

KUDZU VINE.—Jack and the Beanstalk.—Hardy, very rapid growing vine which dies to the roots after frost, but which grows to forty feet in a season when established. Large foliage and clusters of pea-shaped purple flowers. Grows readily from seed. Pkt. 10c.

MORMORDICA.—Mixed.—Commonly known as Balsam apple and Balsam pear. Foliage ornamental, and fruits are golden yellow, opening when ripe, showing a bright carmine center. Fine for trailing. Pkt. 10c, oz. 40c.

MAMMOTH PASSION FLOWER.—Sow the seed early. Magnificent blossoms the first year, of pink, blue and white, very large and showy. A very desirable vine for trailing over porch or trellis. Pkt. 10c.

MOONFLOWER.—White.—(Ipomoea Grandiflora.)—One of the grandest summer climbers, growing 25 to 40 ft. high, and covered nightly and dull days with beautiful flowers from 5 to 6 in. in diameter. Fragrant. Pkt. of 5 seeds 10c, oz. 50c.

Pink.—5 seeds 10c, oz. 50c.

Blue.—In striking contrast to the true White Moonflower. Color exquisite, clear, satiny blue; well defined crimson bars. Pkt. 10c, oz. 50c.

RUNNER BEAN.—Scarlet Runner.—A valuable climbing bean, having bright scarlet flowers and pods; very showy as a climber, also valuable for table use. Pkt. 10c; ¼ lb. 20c; lb. 60c.

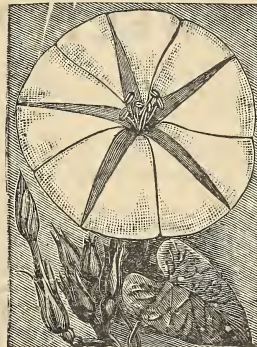
SMILAX.—Specially valued for decorating and floral work all the year. Seeds start slowly and should be planted in loose, rich soil, and kept moist and warm. Pkt. 10c.

WILD CUCUMBER.—A well known vine common in many sections, and the quickest climber know. Reaches height of 30 ft. in one season. Pkt. 10c, oz. 40c.

WISTARIA.—One of the most popular hardy vines, climbing to a height of 50 feet or more. It is perennial and easily grown from seed. Pkt. 10c.



IMPERIAL JAPANESE MORNING GLORIES



MOONFLOWER



MONSTER HELICHRYSUM.

EVERLASTINGS AND GRASSES

These are very attractive for winter decorations as they are of rich, brilliant colors and are fine for winter bouquets. Cut when in full bloom, tie in small bunches and hang heads down to dry.

AMOBIMUM.—*Alatum Grandiflora.*—A pretty everlasting, double white flower. Pkt. 5c.

ACROCLINIUM.—Mixed Colors.—Large, double, very delicate flowers. Colors white, pink and red. Pkt. 5c; oz. 30c.

GLOBE AMARANTH.—(Gomphrena.) Mixed Colors.—Popularly known as "Bachelor Buttons." Handsome globular heads of flowers. Colors purple, white, flesh, orange and striped. Pkt. 5c; ¼ oz. 10c; oz. 30c.

HELICHRYSUM.—*Monster Mixed.*—A very pretty and popular hardy annual bearing large double flowers of different shades and colors, ranging from white to yellow, rich red, scarlet. Retain their form and color many months. Particularly useful in winter decoration. See illustration below. Pkt. 5c; ¼ oz. 20c; oz. 50c.

JOB'S TEARS.—An ornamental grass known botanically as *Coix Lacryma*. Produces beautiful seeds about ¼ inch in diameter, which are used like beads in fancy work. Grows 2 to 3 ft. high with broad leaves. Pkt. 5c; oz. 15c.

JOB'S TEARS FOR FANCY WORK.—We also offer in quantity at a low price choice seeds of glossy pearl color, which are used for necklaces, basket and raffia work, and in strings for portieres. Not sold for germination. Oz. 10c; ¼ lb. 35c; lb. \$1.00.

PENNISTEMUM.—*Rueppellianum.*—Commonly called Purple Fountain Grass. Very popular for borders to beds of cannas and large bedding plants. Pkt. 10c.

RHODANTHE.—Mixed Colors.—For winter bouquets blossoms should be gathered before fully expanded; if dried, retain brilliancy for years. Pkt. 10c.

STATICE.—(Sea Lavender.)—Immense panicles of small flowers sometimes a foot in diameter. Grows 12 to 18 in. high. Colors blue, yellow and white. Pkt. 10c.

XERANTHEMUM.—Free flowering and easily grown, making a handsome bed. All kinds mixed. Pkt. 10c.

MORNING GLORIES

IMPERIAL JAPANESE.—Remarkable for the large size and exquisite new colors of the flowers, with magnificent foliage. Vines grow quickly to a height of twelve to twenty feet. Flowers are of gigantic size, sometimes measuring four or five inches across. Colors, shading and markings really wonders of nature. Double and single. Pkt. 10c; oz. 25c.

FRINGED JAPANESE.—Odd yet attractive appearance. Similar in size and coloring to the Imperial strain. Beautiful because of waved and curled borders of blossoms. Pkt. 10c, oz. 35c.

NEW DOUBLE FLOWERING.—Of rapid growth, and flowers very freely. They are white with a slight spot of red or blue at base of large petals. About 80 per cent will reproduce themselves true from seed. Pkt. 10c.

IMPROVED CLIMBING.—A great improvement on the old climbing morning glory. Large size; great variety. Pkt. 5c; oz. 20c; ¼ lb. 60c.

BRAZILIAN.—(Ipomoea Setosa.)—One of the most luxuriant plants ever grown; very showy and graceful, with rose-colored flowers from 3 to 4 inches in diameter, and a huge leaf 10 to 12 inches across. Pkt. 10c; oz. 25c.

FLOWER SEED MIXTURES

WILD GARDEN MIXTURE.—Over 400 kinds of flower seed. Contains many surprises. Pkt. 5c; ¼ oz. 10c; oz. 25c.

LOW GROWING ANNUALS.—Flowers which grow less than one foot in height. Pkt. 5c; ¼ oz. 15c; oz. 40c.

FLOWERS FOR BOUQUETS.—Pkt. 10c; ¼ oz. 25c; oz. 75c.

MIXED BIENNIALS AND PERENNIALS.—For permanent beds. Transplant in fall. Pkt. 10c; ¼ oz. 25c; oz. 75c.

MIXED EVERLASTINGS.—(Straw Flowers.)—Pkt. 10c; ¼ oz. 25c; oz. 75c.

MIXTURE OF CLIMBERS.—Pkt. 10c; ¼ oz. 25c; oz. 75c.

MANY POPULAR VINES FOR HANGING BASKETS AND WINDOW GARDEN DECORATION ARE LISTED IN PLANT DEPARTMENT.

BULBS

For Summer Blooming

AMARYLLIS

JOHNSONII.—Of strong, vigorous growth, bearing from 3 to 6 brilliant red flowers on each stem. The petals are striped with white; very attractive; fragrant. Each 50c.

FORMOSISSIMA.—(Jacobean Lily.)—Is of extremely rich, deep velvety crimson. Free bloomer and succeeds well in pots or open ground. Each 20c, 3 for 50c; dozen \$1.75.

ATAMASCO.—A fine little bulb for summer blooming; pink flowers. Each 15c; dozen \$1.50.

CALADIUM

ESCULENTUM.—(Elephant's Ear.)—A splendid tropical plant, growing 4 to 5 feet, with immense leaves, beautifully veined and variegated with different shades of green, often growing 3 feet long. Of easy culture. Medium sized bulbs 20c, 3 for 50c; large bulbs 40c, 3 for \$1.00; mammoth 60c, 3 for \$1.50.

FANCY-LEAVED.—Popular for conservatory, greenhouse and window boxes, but nearly all varieties succeed admirably planted out of doors, when the ground has become warm, in partly shaded, sheltered borders. Leaves variegated red, yellow, white, brown, green, etc. Many choice varieties, each 35c; 3 for \$1.00.

GLORIOUS CANNAS

These are now generally considered the most showy and effective bedding plants. They have tropical appearing foliage and showy flowers, some of which are truly orchid-like.

A. CROZY.—Height 4 feet. Green foliage. Crimson scarlet, with broad gold border. One of the most striking among the long list of cannas. See illustration. Each 20c; dozen \$2.00.

CALIFORNIA.—Rare and handsome; color a pure rich orange gold, good habit of growth, large flowers, erect head and blooms freely; green foliage. Height 3 feet. Ea. 20c; doz. \$2.00.

DAVID HARUM.—Height 3½ feet. A dark foliage variety, with very large petaled flowers of intense vermilion scarlet. Choice variety. Each 20c; dozen \$2.00.

EUREKA.—A new variety and the best white flowered sort. Blooms are large and showy. Foliage green, height 3 feet. Each 25c, dozen \$2.50.

FLORENCE VAUGHAN.—It is 5 feet high. Dark green foliage; yellow flowers, spotted with bright red. Is fine for bedding. See illustration. Each 15c; dozen \$1.50.

GOLDEN GATE.—A medium growing variety with green foliage and bright yellow flower. Very attractive and fine in contrast planting. Each 20c, dozen \$2.00.

HUNGARIA.—The best pink canna. Compact and robust in habit, 3½ feet high. Flowers are very large with immense petals, color bright satiny pink. Each 20c, dozen \$2.00.

KING HUMBERT.—One of the grandest ever offered. Flowers extra large. Bright orange scarlet streaked with crimson. Foliage is bronze with brownish green stripes, large, thick and leathery. Strong grower, height 4 feet. Each 20c; dozen \$2.00.

LA FAYETTE.—Immense heads of intense scarlet bloom. One of the best. Height 3½ feet. Each 25c, dozen \$2.50.

LOUISIANA.—Fine. Color vivid scarlet. A strong grower; height 6 feet. Foliage green. Each 20c; dozen \$2.00.

PENNSYLVANIA.—One of the best orchid flowered sorts. Foliage green, flowers very large, bright scarlet, shaded orange. height 6 feet. Each 20c; dozen \$2.00.

PRESIDENT.—Dwarf variety growing about 3 feet tall. Very profuse bloomer. Flowers large, and beautiful bright red color. Green foliage. Each 35c, dozen \$3.00.

PRINCETON.—Bright yellow flower; dash of red in throat and on petals. Green foliage, 3½ ft. high. Each 25c, doz. \$2.50.

RICHARD WALLACE.—Height 4½ feet. Flower canary yellow; large flowers carried well above the foliage. Dark green, massive foliage and strong grower. Each 20c, dozen \$2.00.

SHENANDOAH.—A large pink flower of splendid form. Dwarf habit but strong grower. Height 3 feet. Bronze foliage. A popular sort. Each 20c; dozen \$2.00.

UNCLE SAM.—Great, large flower of orange scarlet. A striking variety. Height 6 feet; green foliage. Each 25c; doz. \$2.50.

WILLIAM SAUNDERS.—Splendid large scarlet flowers in extra large clusters. Heavy, thick bronze foliage. Strong, robust grower. Height 3½ feet. Each 20c, dozen \$2.00.

WYOMING.—One of the majestic flowering cannas in orchid flowering class with a luxuriant growth of rich purple foliage. Above are borne great plumes of massive orange-colored blossoms with large petals. Seven feet. Each 20c; doz. \$2.00.

QUEEN HELENE.—Also called "Yellow King Humbert." Flowers bright yellow, dotted red. Free bloomer, robust habit. Height 4 feet. Bright green foliage. Each 25c, dozen \$2.50.

MIXED BEDDING CANNAS.—Each 15c; dozen \$1.50.



CALADIUM ESCULENTUM.



FANCY LEAVED CALADIUMS



A. CROZY FLORENCE VAUGHAN
AND CALIFORNIA

Uncle Sam Canna Collection

One each of the following choice varieties:

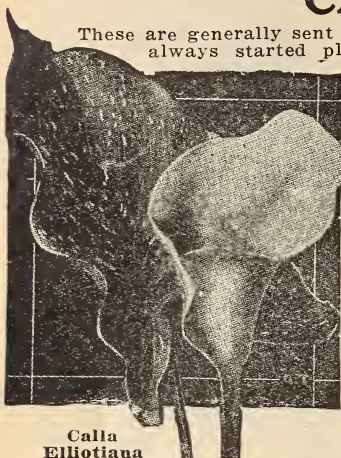
California, Golden Gate, La Fayette, Louisiana, Pennsylvania, Princeton, President, Shenandoah, Uncle Sam, Wyoming. Ten superior sorts postpaid for only \$1.75.

Contrast Canna Bed Bargain

One each four finest varieties: President, California, King Humbert, Queen Helene. Illustrated in colors on back cover page. Postpaid for 75c.

CALLA LILIES

These are generally sent out as dry bulbs, but the Little Gem variety are always started plants. Should our stock of dry bulbs become exhausted we will send growing plants instead.



Calla
Elliottiana

MAMMOTH WHITE.—Largest flowering variety and most majestic. It is of perfect flowering form with large tropical appearing leaves of bright green color and yielding throughout the season a profusion of white flowers. Large size each 25c, 3 for 60c.

ELLIOTTIANA.—This magnificent new yellow calla is of marvelous beauty. Flowers very large and of brightest golden yellow. Leaves beautifully spotted white. Each 35c, 3 for 90c.

LITTLE GEM.—A perfect small Calla, growing 18 inches high, producing beautiful snow-white blossoms. Blooms summer or winter. Growing plants 20c, 3 for 50c.

SPOTTED LEAF.—Leaves deep green with white spots, giving plant a magnificent appearance. Flowers are of pure white with black centers. Each 25c, 3 for 65c.

CALLA LILY COLLECTION

Three different types in flower and foliage. One each of Mammoth White, Elliottiana and Spotted Leaf, postpaid for only 75 cents.



LITTLE GEM CALLA
CINNAMON VINE

Perfectly hardy, the stem dying down every autumn, but growing again so rapidly as to completely cover any trellis or arbor very early in the season. Beautiful heart-shaped leaves, clusters of delicate white flowers and delicious cinnamon odor. Large tubers, postpaid, for 15c; 2 for 25c; doz. \$1.25. Small bulbets, 20c per dozen, 100 for \$1.00.

STATELY DAHLIAS

The Dahlia is one of the showiest of all autumn flowers. Of the many varieties we have selected the following as of special value. For best results start roots early in house.

DECORATIVE DAHLIAS

For type of blooms see Nos. 1 and 2 in group picture.

FRANK A. WALKER.—A charming shade of deep lavender pink. For garden decoration or cut flowers this variety is exceptionally good; has long stems and blooms abundantly. Each 20c, 3 for 75c.

ELSIE DAVIDSON.—(See cut No. 1.)—Giant-flowering, deep golden yellow. Popular because of form and color. Each 25c.

JACK ROSE.—So named because the color is brilliant crimson red, almost exactly like the General Jacqueminot rose. Popular because of brilliant color. Each 20c, 3 for 50c.

MADONNA.—Blooms in wonderful profusion and flowers are borne on stiff, wiry stems. Color white, slightly tinted delicate lavender pink. Petals curl and twist. Each 35c, 3 for \$1.00.

SYLVIA.—(See cut No. 2.)—A very lovely shade of mauve pink, shading to white in the center. A fine flower on a vigorous plant. One of the best decorative dahlias of lighter shade. Ea. 25c, 3 for 65c.

SOUVENIR de GUSTAV DOAZON.—Giant flower, strong plant. Ordinarily 6 inches and sometimes fully 9 inches across. Blooms in abundance. Color bright, dazzling red. Each 25c, 3 for 60c.

SHOW DAHLIAS

Type of blooms, Nos. 3, 4 and 5 of group picture.

VIVIAN.—An extremely wonderful blending of white and edge of rose violet. It is a prize variety not surpassed by any in beauty and form. Each 25c, 3 for 65c.

W. W. RAWSON.—Flowers 18 inches in circumference; petals are rolled up so that they overlap each other. Color is pure snow white, tinged with light blue at center. Each 40c, 3 for \$1.00.

PROGRESS.—(See Cut No. 5.)—A clear lavender with stripes and blotches of soft crimson through each petal. Contrasting colors make a lovely flower. Each 25c, 3 for 65c.

GLOBE DE NANTES.—(See Cut No. 4.)—A perfect model in form and a favorite because of color, which is bright and brilliant scarlet. Each 25c, 3 for 65c.

EMPERESS OF AUSTRALIA.—Flowers large size. Color pure yellow slightly tipped reddish brown. Each 25c, 3 for 65c.

QUEEN VICTORIA.—Plant a robust grower and so covered with flowers as to appear almost like a solid mass of golden yellow color. Blooms early. Each 25c, 3 for 60c.

ROBERT BROOMFIELD.—Pure white. Tall grower. Each 25c.

STRADELLA.—(Cut No. 3.)—Beautiful deep purple-crimson. Exceptionally free flowering. Stems long and wiry. One of the finest. Each 25c.

HYACINTHUS CANDICANS

The stems are 3 to 4 feet high; bear quantities of large, drooping flowers, ivory in color and bell-shaped. Delicately fragrant and by planting closely a clump of these will produce a charming effect. Large, each 15c, doz. \$1.50.



HYACINTHUS CANDICANS



DAHLIAS (REFER TO NUMBER IN DESCRIPTION)
CACTUS DAHLIAS

LIBELLE.—A solid color cactus dahlia of fine form. Clear, deep rose purple. Each 25c, 3 for 65c.

STERN.—Color is bright primrose yellow. Very bright and particularly pleasing in mixed bouquets. Ea. 25c, 3 for 65c.

J. H. JACKSON.—In color a perfectly gorgeous, deep, velvety blackish-maroon. Gigantic size. Ea. 25c, 3 for 65c.

KREIMHILDE.—Bright, shining pink, gradually shading to white at the center. Vigorous grower. Ea. 30c, 3 for 75c.

THE BEST OF THE DIFFERENT DAHLIA TYPES ARE OFFERED. YOU CAN EASILY FIND YOUR FAVORITE AMONG THEM.

PLEASE USE THIS SHEET FOR YOUR PLANT ORDER

Filled by		Zone	
Date Shipped		Shipped by	

ORDER SHEET FOR PLANTS, BULBS

and NURSERY STOCK

From the IOWA SEED COMPANY
209-211 Walnut Street **Des Moines, Iowa**
 Warehouse—208-210-212 S. Eighth St. Greenhouses—31st and Crocker Sts.

Please leave above spaces blank

 Please write your name and address distinctly and in full with each order. Old customers who have moved since last season will please state their former address also. Read "Suggestions to Customers" on first page of Catalog. Extra ordersheets and return envelopes on application.

IOWA SEED CO....Please ship the following goods on the terms and conditions stated on page one of your general catalog.

Date.....192.....

Name

Amount Enclosed

WRITE PLAINLY

Post Office.....

S

County.....State.....

NOTICE—Our terms are cash with order which may be sent by draft, money order or registered letter. Postage stamps may be sent if more convenient. Shipping C. O. D. adds an unnecessary expense.

P. O. Box or St. R. F. D. No.

Express Town (If different from P. O.)

Ship by.....

We Prepay the Postage on all seeds, plants and bulbs, except where noted. Field seeds, potatoes and other goods, except as noted, we ship by freight or express, purchaser paying charges.

[illegible]

PLEASE USE THIS SHEET FOR YOUR ORDER

ORDER SHEET FOR

Choice Iowa Seeds

TOOLS, SEED POTATOES, ETC.

From the **IOWA SEED COMPANY**

209-211 Walnut Street

Des Moines, Iowa

Warehouse—208-210-212 S. Eighth St.

Greenhouses—31st and Crocker Sts.

Please leave above spaces blank

 Please write your name and address distinctly and in full with each order. Old customers who have moved since last season will please state their former address also. Read "Suggestions to Customers" on first page of Catalog. Extra order sheets and return envelopes on application.

IOWA SEED CO.--Please ship the following goods on the terms and conditions stated on page one of your general catalog.

Date.....192.....

Name.....

Amount Enclosed

S

WRITE PLAINLY

Post Office.....

NOTICE—Our terms are cash with order which may be sent by draft, money order or registered letter. Postage stamps may be sent if more convenient. Shipping C. O. D. adds an unnecessary expense.

County.....State.....

P. O. Box or St. R. F. D. No.

Express Town (if different from P. O.) **Ship by** (BY MAIL EXPRESS)

We Prepay the Postage on all seeds, plants and bulbs, except where noted. Field seeds, potatoes and other goods, except as noted, we ship by freight or express, purchaser paying charges.

[illegible]

FARM SEED PRICES

TODAY'S VALUES—DECEMBER 28, 1922 } Good only for orders sent within 10 days

TERMS--Cash with order. No extra charge for bags Express or freight charges on all farm seeds are to be paid by the purchaser. Reference, Valley National Bank Des Moines. Descriptive catalogue free any time on request. Write for free circulars on farm crops.

ABOUT WARRANTING--NOTICE--We use great care in selecting, cleaning and testing all seeds, and nothing is sent out which we do not believe to be good in every respect, but we want it plainly understood that we do not give any warranty express or implied, as to description, quality, productiveness or of any other matter of any seeds we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept them on these terms, they are to be returned at once, and the money which has been paid for same will be refunded.

IOWA SEED CO

CLOVER AND GRASS SEEDS

Clover and Grass seeds are sold on a close margin of profit and the price fluctuates within the market. These prices are good for orders sent within ten days under general conditions, but of course are subject to stock unsold, and we reserve the right to change without notice should there be extreme fluctuations. If you do not buy until later ask for prices then.

15 lbs or more sold at the 100 lb rate.

	Per 100 lbs	Equals per bu
CLOVER SEED weight 60 lbs per bu		
Medium Red Iowa Shield.....	28 00	16 80
" " Fancy.....	27 00	16 20
" " Choice or Standard.....	26 00	15 60
Mammoth Red Iowa Shield.....	28 00	17 40
" " Fancy.....	27 00	16 80
" " Choice or Standard.....	27 00	16 20
Alsike Iowa Shield.....	23 00	13 80
" " Fancy.....	22 00	13 20
" " Choice or Standard.....	21 00	12 60
Alfalfa Iowa Shield.....	24 00	14 40
" " Fancy.....	23 00	13 80
" " Choice or Standard.....	22 00	13 20
" " Turkestan, fancy.....	22 00	13 20
" " Grimm, northern.....	50 00	30 00
Sweet--Officialis Yellow biennial.....	16 00	9 60
" Iowa Shield White biennial.....	16 00	9 60
" " Fancy White biennial.....	15 00	9 00
" " Hubam white annual.....	40 00	24 00
Our Sweet Clover seed is all scarified.		
White Dutch--Iowa Shield.....	70 00	42 00
" " Fancy.....	65 00	39 00
Crimson--Fancy.....	25 00	15 00
TIMOTHY--Iowa Shield (45 lbs. bu.).....	10 00	4 50
" " Fancy.....	9 00	4 05
" " Iowa Standard.....	8 00	3 60
TIMOTHY AND ALSIKE MIXED (50 lbs. bu.)		
Proper proportions for sowing.....	12 00	6 00
SUDAN GRASS--Northern (30 lbs.).....	20 00	6 00
Southern.....	18 00	5 40
MILLET--German Iowa Shield (50 lbs. bu.).....	50 00	2 50
" " German Standard.....	4 50	2 25
" " Siberian.....	5 00	2 50
" " Manitoba.....	5 00	2 50
" " Japanese.....	10 00	5 00
" " Hungarian.....	6 00	3 00

LIGHT GRASSES

All sold on the basis of 14 lbs per bushel except the Mixtures which are 15 lbs per bushel.

	Per 100 lbs	Equals per bu
K'Y BLUE GRASS--Iowa Shield.....	\$45 00	6 30
" " Fancy.....	42 00	5 88
LAWN GRASS--Evergreen.....	45 00	6 75
Shady Place.....	55 00	8 25
Terrace Mixture.....	55 00	8 25
Putting Green.....	55 00	8 25
Golf Links.....	55 00	8 25
Southeast.....	50 00	7 50
RED TOP--Unhulled.....	28 00	3 92
" " Unhulled.....	20 00	2 80
ORCHARD GRASS.....	20 00	2 80
PERENNIAL RYE GRASS.....	17 00	2 38
ITALIAN RYE GRASS.....	17 00	2 38
ENG BLUE GRASS (Meadow Fescue).....	17 00	2 38
BERMUDA GRASS.....	35 00	4 90
PERMANENT UPLAND MEADOW.....	18 00	2 70
PERMANENT UPLAND PASTURE.....	24 00	3 60
PERMANENT LOWLAND MEADOW.....	19 00	2 85
PERMANENT LOWLAND PASTURE.....	23 00	3 45
WOODLAND PASTURE.....	33 00	4 95

FERTILIZERS

Enrich your land in order to increase your crops.

	Per 100 lbs
Grain Fertilizer.....2-12-2.....	3 25
Garden Fertilizer.....1-8-3.....	3 00
Lawn Fertilizer.....2-12-0.....	3 00
Acid Phosphate.....0-16-0.....	2 75
Pulverized Sheep Manure.....	3 00
Pure Bone Meal.....	3 80
Nitrate of Soda.....	5 75

STANDARD INOCULATING BACTERIA

For description and price see page 37 of catalogue.

FORAGE AND FODDER CROPS

You can greatly increase your yield for forage, fodder, or silo by growing these.

	Per 100 lbs	Equals per bu
CANE--Amber, For Fodder (50 lbs).....	7 00	3 50
Orange For Fodder.....	7 00	3 50
KAFFIR CORN--White for seed (56 lbs).....	5 00	2 30
MILK MAIZE--Red for seed (56 lbs).....	5 00	2 30
FETERITA.....	5 00	2 30
DWARF ESSEX RAPE--10 lbs. \$1 20.....	12 00	7 20
English Crown.....	15 00	9 00
1,000 HEADED KALE 5 lbs. \$1.75.....	27 00	16 20
FIELD PEAS--White.....	8 00	4 80
COW PEAS--New Era.....	7 00	4 20
Whippoorwill.....	7 00	4 20
SOY BEANS--Ito San (Northern) 60 lbs.....	8 00	4 80
Manchu.....	8 00	4 80
Midwest Yellow.....	8 00	4 80
Black Eyebrow.....	8 00	4 80
SAND VETCH.....	25 00	15 00
BROOMCORN--Evergreen.....	6 00	3 00
Dwarf.....	6 00	3 00

SEED GRAIN

It pays to sow pure bred, clean seed grain if you desire a good crop, and we can please you.

	Per bu	10 bu or more at
SEED WHEAT Marquis.....	2 10	2 00
Early Java.....	2 25	2 15
Macaroni.....	1 60	1 50
SEED RYE--Rosen, winter.....	1 50	1 40
Monster Winter.....	2 25	2 15
Spring.....	1 60	1 50
SEED BARLEY--Mandscheuri.....	1 60	1 50
Oderbrucker.....	2 50	2 40
SELT or EMMER.....	2 50	2 40
BUCKWHEAT--Japanese.....	3 50	3 40
Silver Hull.....	6 50	6 25
SEED FLAX.....		
BEANS--Imp'd Navy, 1b 15c.....		

SEED CORN

	Per bu	10 bu or more at
Profit.....	3 00	2 75
Iowa Silver Mine.....	3 00	2 75
Iowa Gold Mine.....	3 00	2 75
Farmers Reliance.....	3 00	2 65
Reid's Yellow Dent.....	3 00	2 75
Wenger's Gold Medal.....	3 00	2 75
Lenocher's Homestead.....	3 00	2 75
Pride of the North.....	4 50	4 40
Sanford's White Flint.....	4 50	4 40
Improved Yellow Flint.....	5 00	4 75
Evergreen Sweet Fodder.....		

SEED POTATOES

	1 50	1 40
Extra Early Ohio.....	2 40	2 25
Extra Early Triumph.....	1 60	1 50
Irish Cobbler.....	1 50	1 40
Rose of the North.....	1 40	1 25
Rural New Yorker.....	1 40	1 30
Northern King.....	1 40	1 30
Burbank.....		

POULTRY FOODS

We handle a very complete line of Poultry Supplies and refer you to pages 78 and 79 of our seed catalogue for list and prices. Also notice description of our Plymouth Rock Poultry Foods.

Plymouth Rock Hen Food.....	\$ 2 50
Plymouth Rock Chick Food.....	2 75
Plymouth Rock Egg Mash.....	3 00
Plymouth Rock Buttermilk Food.....	4 50
Cracked Corn, screened.....	1 75
Corn Meal.....	1 75
Shelled Corn.....	1 75
Bran, best quality.....	2 00
Shorts, good quality.....	2 25
Oats, whole, for sprouting.....	2 25
Oats, whole, for feeding.....	2 25
Milo Maize and Kaffir Corn, mixed.....	2 75
Barley, for feeding.....	2 25
Buckwheat, for feeding.....	4 00
Field Peas.....	7 00
Sunflower.....	12 00
Poultry Millet.....	3 50
Oil Meal--Linseed.....	3 50
Alfalfa Meal.....	2 50
Meat scraps, ground fine.....	6 00
Crushed Oyster Shell, regular.....	1 50
Poultry Grit.....	1 50
Crushed Raw Bone, poultry size.....	5 00
Fine Crushed Bone, for chicks.....	5 00
Charcoal, fine or coarse.....	5 00

BLATCHFORD'S PRODUCTS

	25 lbs.	100 lbs.
Calf Meal, milk substitute.....	\$1 35	\$5 00
Buttermilk Chick Mash.....	1 35	5 00
Egg Mash, for laying hens.....	1 10	4 00
Pig Meal same price as Calf Meal.....		

IOWA SEED CO Store 209-211 Walnut St
Warehouse 212 So 8th St **Des Moines, Iowa**

GET YOUR CERTIFICATE

You are entitled to a Customers Certificate on your order

Send us your order. Make it as large as you can and send it early. The larger the order the greater will be the value of the Certificates sent you. When your order is received we will fill it promptly and enclose in the package of seeds

A Customers Certificate

Which you can use as part payment on future orders whether for yourself or neighbor. The only restriction is that orders to receive the Customers Certificate must amount to at least \$1.00. A letter of instructions giving full particulars of the plan will accompany the Certificate. This offer is for customers only and no certificate will be sent until your first order is received.

IOWA SEED COMPANY

209-211 WALNUT STREET
DES MOINES, IOWA

FREE

If you send us an order for packet seeds, plants and bulbs, to the amount of \$5.00 or more, we will send you, absolutely free, a beautiful clutch pencil, like illustration below.

This gift is absolutely free and without condition, but will be sent only for large orders and you must

MENTION IT IF YOU WANT IT

Only one pencil on any order and sent only if requested with the order.

We hope every customer will take advantage of this offer, and we ask you to send your order early.

THIS PENCIL

Is a dandy. It is particularly attractive in appearance and works as well as it looks. Has a good rubber eraser, a quantity of extra leads, and is a pencil that anyone will be proud to carry. Always ready to use.


IOWA SEED CO., - DES MOINES, IA.



WRITE YOUR NAME AND ADDRESS HERE

Hundreds of Orders are Delayed Because the Sender
Failed to Give His Name and Address.

From _____



**12 SUPERB
GLADIOLI**

A choice
assortment
of colors.
Nice blooming
size bulbs.

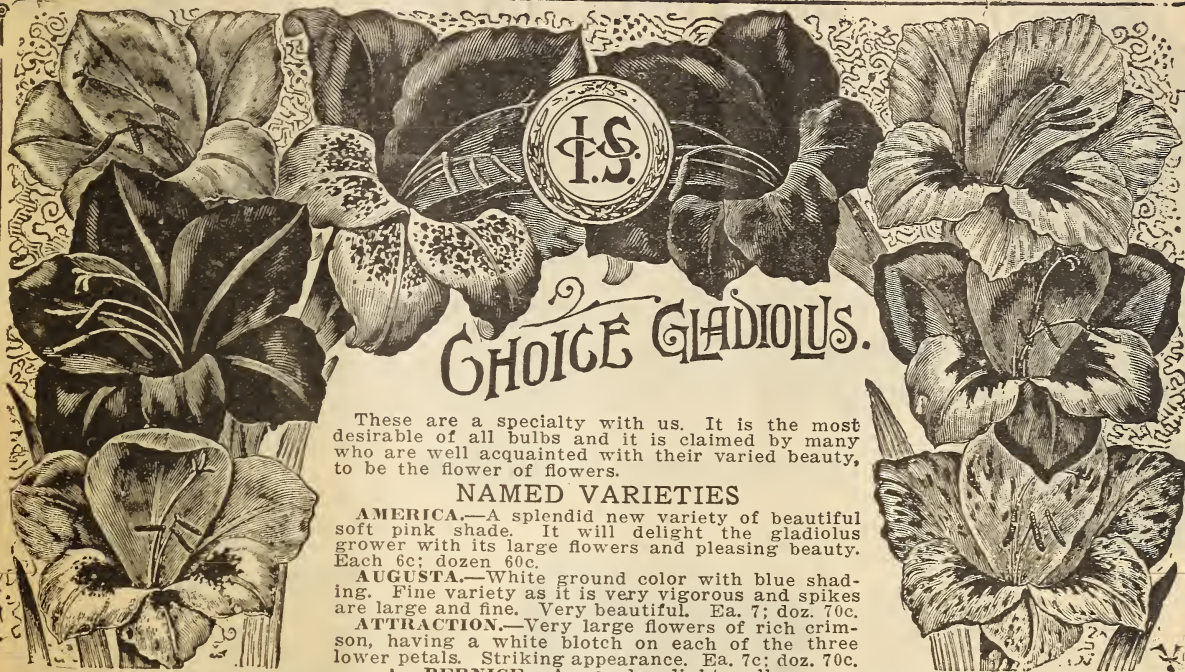
**A REAL BARGAIN
25 Cts.**

Postpaid anywhere in U.S

Iowa Seed Co.,

Des Moines,

Iowa.



CHOICE GLADIOLUS.

These are a specialty with us. It is the most desirable of all bulbs and it is claimed by many who are well acquainted with their varied beauty, to be the flower of flowers.

NAMED VARIETIES

AMERICA.—A splendid new variety of beautiful soft pink shade. It will delight the gladiolus grower with its large flowers and pleasing beauty. Each 6c; dozen 60c.

AUGUSTA.—White ground color with blue shading. Fine variety as it is very vigorous and spikes are large and fine. Very beautiful. Ea. 7c; doz. 70c.

ATTRACTION.—Very large flowers of rich crimson, having a white blotch on each of the three lower petals. Striking appearance. Ea. 7c; doz. 70c.

BERNICE.—A popular light yellow, with buff and pink markings. Very fine. Each 5c, dozen 50c.

BARON HULOT.—Dark velvety purple. It is the best blue flowered gladiolus yet introduced. Good form and good spikes. Each 12c; dozen \$1.20.

CHICAGO.—A splendid large flower of purest white borne in great spikes. Each 10c, dozen \$1.00.

HALLEY.—Color pure salmon pink. A very large, open flower, borne on spreading stalks. Each 6c, dozen 60c.

MRS. FRANK PENDLETON.—Flowers large pink with brilliant carmine blotches on lower petals. Ea. 10c, doz. \$1.00.

MEADOWVALE.—Pure white ground, crimson throat and stripes of pink in lower petals. Beautiful. Ea. 7c, doz. 70c.

MRS. FRANCIS KING.—Great beauty Color pleasing light scarlet. Spike is strong, flowers large. Each 6c, doz. 60c.

NIAGARA.—Tall stalk, strong stem, vigorous; color canary and cream shadings. Splendid. Each 7c, dozen 70c.

PRINCE OF WALES.—Early blooming with fine spikes of large flowers. Color delicate apricot pink, suffused salmon. Each 12c; dozen \$1.20.

PANAMA.—Color rich rose pink. Free blooming, large spike, and afavorite wherever grown. One of best for satisfactory results. Ea. 10c, doz. \$1.00.

PEACE.—Immense pure white flowers with touch of carmine in the lower petals. Tall, graceful spikes, truly beautiful. Each 10c; dozen \$1.00.

PRINCEPINE.—Rich crimson, deep shadings in throat, and fine large white blotches on the lower petals. Flowers large and fine. Each 7c, dozen 70c.

ROUGE TORCH.—A beautiful large, white with scarlet feather in lower petals. A good variety. Each 7c, doz. 70c.

SCHWABEN.—The largest of the yellow flowered gladiolus. Very productive of bloom, frequently 2 to 3 stalks from a bulb. Ea. 12c; doz. \$1.20.

VELVET KING.—Almost solid colored flower of deep crimson. A very fine variety for bouquets. Each 7c, dozen 70c.

GLADIOLUS COLLECTION

One choice first size, extra large bulb each of America, Attraction, Schwaben, Halley, Meadow Vale, Bernice, Mrs. Frances King, and Rouge Torch: 7 choice sorts 40c, postpaid.

SPECIAL GLADIOLI MIXTURES

For the benefit of such of our customers as wish a number of given tints for massing we are offering at attractive prices some of the choicest mixtures to be found in this country.

ALTOONA MIXED.—This is put first in our list of Gladioli because we believe it is the best mixture in existence. Is made from the named varieties on this page and other very choice sorts which we do not list. Large bulbs each 5c, dozen 50c, 100 for \$4.00.

SILVER TROPHY MIXED.—Considered one of the finest of commercial mixtures. Our stock was procured from the originator and has been carefully grown, so that we can without hesitation recommend it to our friends. Each 5c, dozen 50c, 100 for \$4.00.

FINE MIXED.—Our own mixture containing a wide range of color; offered at a very low price and we feel sure they will prove satisfactory. First size each 4c, dozen 40c, 100 for \$3.00.

HEMEROCALIS LILIES

Hardy, herbaceous plants that multiply rapidly. Very desirable for clumps and mass planting.

LEMON LILY.—Handsome flower for garden culture. Not a true lily. Flower is about 3 inches in diameter. Color is clear lemon yellow of very bright, pleasing appearance. Have a most delightful lemon fragrance. Each 20c, dozen \$2.00.

ORANGE LILY.—Similar to Lemon Lily, fine orange color. These and Lemon Lilies intermingled give a most pleasing effect and a wealth of blossoms. Each 20c, dozen \$2.00.

BUTTERCUP LILY.—(Hemerocalis Thunbergii.)—Is a splendid variety, blooms in July. Grows 4 feet; large lily-like flowers of buttercup yellow. Each 20c, dozen \$2.00.

CORN LILY.—(Hemerocalis Fulga.)—Blooms in mid-summer. Flower corn yellow. Profuse bloomer. Ea. 20c, doz. \$2.

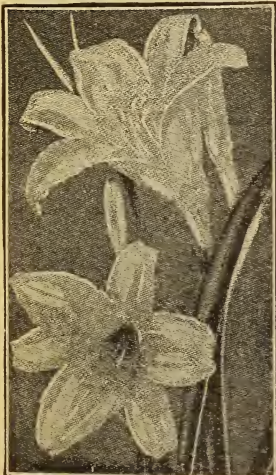
DOUBLE CORN LILY.—(Hemerocalis Quanso.)—A double flower of attractive appearance. Distinctive both in habit and color of bloom. Each 20c, dozen \$2.00.

ALTRIANA.—Color rich orange, flowers open and cup shape. Is sometimes called "Buttercup Lily, but differs from the variety called by that name above. Each 25c, dozen \$2.50.

GLOBE D'OR.—This is one of the finest of the Hemerocalis lilies. Color is rich golden yellow, and the flowers are exceptionally large. Each 25c, dozen \$2.50.

DR. REGAL.—Large, clear lemon yellow. Each 25c, doz. \$2.50.

ONE EACH EIGHT ABOVE SORTS, POSTPAID, ONLY \$1.30.



LEMON LILY



CORN LILY

YOU CAN GET RESULTS QUICKLY BY PLANTING SUMMER BULBS. OURS ARE FULLY MATURED AND OF BLOOMING SIZE.

BEAUTIFUL LILIES

Nothing can surpass the Lily in beauty, purity, delicacy and stately, magnificent grandeur. A few clumps planted in some place in your yard where they will not be disturbed from year to year, will reward you with abundant flowers. These varieties are, perhaps, the most popular lilies grown, producing large flowers of delicate beauty. Bloom better the second year.

AURATUM.—(Japanese Gold-Banded Lily.)—This is justly entitled to the name given it, "The Queen of Lilies." The immense flowers are produced in great profusion and are deliciously fragrant. The large white petals are thickly spotted with rich chocolate crimson, and have a bright golden yellow band through the center of each. Each 50c, 3 for \$1.25.

SPECIOSUM RUBRUM.—These are perhaps the most popular lilies grown, being easy of cultivation and produce large flowers of delicate beauty on strong stems; height from 2 to 4 feet. Blooms in August. Flowers are white, with a deep rosy or crimson band on each petal, with deeper colored spots between. They are 5 to 6 inches in diameter, very fragrant and have all the hardness of the Speciosum class. Each 40c, 3 for \$1.00.

SPECIOSUM ALBUM.—The finest of the pure white, hardy perennial garden lilies. Has large white flowers of great substance, beautifully recurved. Each 40c, 3 for \$1.00.

MELPOMENE.—Words cannot describe the beauty of this variety. Frosted white, spotted, clouded and bearded with pinkish crimson. Petals recurved, widely bordered. Each 40c, 3 for \$1.00.

EASTERN SPLENDOR LILY COLLECTION

A selected choice bulb of each of the following varieties:

Auratum, Rubrum, Album and Melpomene

The finest varieties of cultivated lilies; all perfectly hardy anywhere. **POSTPAID FOR ONLY \$1.35.**

LILY OF THE VALLEY

A well-known, universally admired spring flowering plant, bearing bell-shaped, powerfully fragrant flowers. For the open ground one should select a partly shaded and rather moist situation. They are very charming in large patches as their handsome green leaves and lovely sprays of flowers make a beautiful effect. Once established the crowns increase in number. Four strong roots for 25c, dozen 75c.

MADEIRA VINE

Also called Mignonette Vine and Mexican Vine. A beautiful tuberous-rooted climber, with rather plain, thick leaves and handsome racemes of fragrant white flowers. Makes a very rapid growth and a few plants cover a trellis or cottage in a single season. Very pretty to use for shading a porch or veranda. Each 10c, 3 for 25c.

Winter Blooming Bulbs

Orders for these filled in September. Complete bulb list for fall planting will be sent in August.

Hyacinths, mixed colors, doz.....	\$0.80
Tulips, single mixed, doz.....	.40
Tulips, double mixed, doz.....	.40
Crocus, mixed, doz.....	.25
Narcissus, paper white, doz.....	.80
Narcissus, Von Sion, doz.....	.80
Chinese Sacred Lily, each.....	.25



TRITOMA PFITZERI



MADEIRA VINE

SUMMER OXALIS

No bulb is so valuable for edging the borders of walks or flower beds as the beautiful flowering Oxalis. When planted 3 in. apart they produce an unbroken row of elegant foliage and pretty flowers; blooms quickly after planting.

DIEPPI ALBA.—Pretty, low-growing variety with light green leaves and clusters of pure white; bell-shaped flowers; blooms profusely. Dozen 10c, 100 for 75c.

LASANDRA.—Large, dark green palmate or five fingered leaves, with clusters of rosy pink flowers. This is taller than above. Satisfactory border. Doz. 10c, 100 for 75c.

TUBEROSE

NEW EXCELSIOR PEARL.—The tuberose is justly a universal favorite and very easily grown. Has short, robust stem and long spikes of large flowers, which are perfectly double and twice the size of the common tuberose, white of equally delicious fragrance. Spikes frequently bear 30 to 50 flowers, remaining in bloom for a long time. They are always waxlike, pure white, and unsurpassed for buttonhole bouquets. First size each 12c, doz. \$1.20. Medium size each 10c, doz. \$1.00.

MEXICAN SINGLE.—Grows 3 feet high, producing two to five flower stems from one bulb. Flowers single, pure white, much pleasanter in fragrance than the Pearl. Each 10c; doz. \$1.

TRITOMA

PFITZERI.—(Flaming Torch.)—Flower spikes produced in great freedom, of rich orange scarlet; in bloom is a grand sight; scattered through garden adds brightness. In its glory when other flowers are seared with frost. Each 25c.

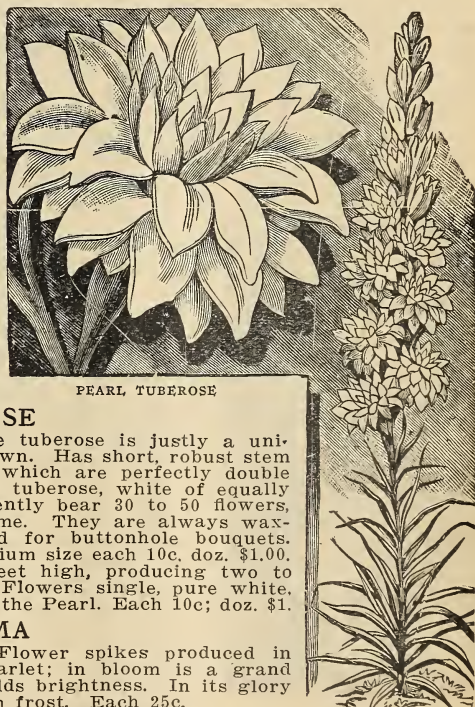


TIGER LILIES

The old fashioned tiger lilies were favorites for many years, and are still popular. The improved varieties here offered are far superior to the old kind and are worthy of a place in any garden. When once established they increase in numbers each year.

DOUBLE TIGER LILY.—A double form of the Old Tiger Lily. The flower is densely double, color orange red, spotted with black. Blooms freely; should be more largely grown. As hardy as the old-fashioned tiger lily and much more beautiful. Each 25c, dozen \$2.50.

TIGRINUM SPLENDENS.—A very large tiger lily growing sometimes 5 feet high and producing large pyramids of orange red flowers spotted with black. They are wonderfully decorative because of impressive and splendid beauty. Each 25c, dozen \$2.50.



PEARL TUBEROSE

PLANT AND NURSERY DEPARTMENT



Iowa Seed Company's Thirty-two Greenhouses

Our greenhouse department is better equipped to care for a mail order plant trade than any establishment in the west. We have 32 large greenhouses besides a number of steam heated hot beds and cold frames. Special attention is given to growing plants for our mail customers. Our business in this line covers the entire country and we constantly fill orders from every state and ship many orders to foreign countries. Our system of packing is complete and careful. This department is under the personal supervision of Mr. C. W. Davison, a director and stockholder in our company. He has had an experience of many years in conducting this branch and every order received gets his personal care.

Separate Plant and Seed Orders.—We send two order sheets with this book. Use one for seeds and the other

for plants as designated. The plant orders go direct to the greenhouse for filling and are kept on file there. Such use of the order sheet will save time and expense.

Terms.—At the prices named we send plants by mail postpaid except where noted. Orders must amount to at least 25 cents, for if of less amount they are filled at a loss.

Special Express Packing.—In shipping by express at customer's expense for carriage we leave the dirt on the roots unless instructed to the contrary.

We Guarantee all plants to reach purchasers in any part of United States in good order by mail or express. **Complaint must be made immediately on receipt of goods.** After their delivery in good condition our responsibility ceases.

ABUTILON

SNOWSTORM.—The best white flowered Abutilon. Plant is strong, upright grower and it will contrast nicely in a collection of these Abutilons. Each 20c.

ECLIPSE.—A splendid variety for baskets and vases; foliage marbled green and yellow; flowers scarlet and orange buff. Each 20c.

GOLDEN BELLS.—The best yellow flowering variety; of dwarf habit. Each 20c.

ERECTA.—Color a bright clear pink, a pleasing and lovely shade. Each 20c.

ACALYPHA

BICOLOR.—Brighter and more attractive for bedding than Coleus. Leaves bright green margined with band of lemon yellow, dotted and splotted with the same color. Each 25c.

TRICOLOR.—Mottled and blotched with crimson and scarlet on green background. Maintains its markings in summer heat. Each 20c.

MARGINATA.—Foliage bronze green, margined with the same color. Each 15c.

SANDERL.—(Chenille Plant.)—A most striking ornamental plant of branching habit. The flower spikes, which appear in pairs from the axis of the leaves, grow 8 to 10 inches in length. They are bright crimson and mix among green foliage with charming effect. Ea. 25c.

ASPARAGUS

PLUMOSUS NANUS.—One of the handsomest of our foliage plants for pot culture, beautiful the year round, and there is no more decorative plant in the entire list. Easily grown, even in a north window. Leaves bright green, gracefully arched, and as finely woven as the finest silken mesh; their lasting qualities, when cut, are remarkable, retaining their freshness for weeks. Each 20c; large 40c.

SPRENGERI.—A splendid new plant for hanging baskets or pots. It droops most naturally, sending out numerous feathery fronds which, in a short time, make a growth of 3 to 6 feet, forming an exquisitely handsome and striking picture. It produces small white flowers which are succeeded by red berries. A well established plant is literally a mass of emerald green. Each 20c; large size each 40c.



ERECTA ABUTILON

NOTICE

We ship all plants as soon after order is received as weather permits. Bedding plants we will hold until usual season for setting out. If plants are ordered during winter for immediate shipment they will be sent at buyer's risk.

ASTER PLANTS

Snowdrift White, Royal Purple, Enchantress Pink, Heart of France. Any of these, doz. 35c, 100 for \$3.

BEST VARIETIES MIXED.—Price is low and you should have a fine bed of these. Dozen 30c, 100 for \$2.00, prepaid.

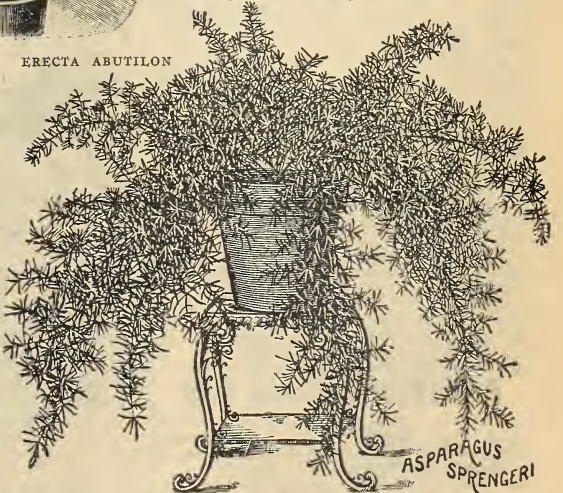
BANNER ASTER COLLECTION

One dozen Heart of France, one dozen Snowdrift and one dozen Royal Purple.

Three dozen choice plants for only 75 cents, postpaid.



ASPARAGUS PLUMOSUS NANUS



ASPARAGUS SPRENGERI

WE EXPECT TO PLEASE YOU WITH THE STURDY, THRIFTY CHARACTER OF THE PLANTS WE SEND OUR CUSTOMERS.



ANTHERICUM

A new variegated decorative plant, useful, when small, as center to jardiniers. Larger plants are very attractive in porch boxes and hanging baskets. The leaves are only about six inches long, dark green, with a bright yellow center; the crest of each flower stem reproducing a new plant complete. Each 20c, dozen \$2.00.



ARGENTEA GUTTATA BEGONIA

MINIATA.—A beautiful variety of upright, bushy style of growth; flower bright scarlet. They are very free flowering. Each 20c.

OTTO HACKER.—Strong, vigorous grower, of fine upright habit, with large shining deep green leaves eight to ten inches long. Flowers bright coral-red, borne in immense clusters eight to ten inches across. Each 20c.

PROFUSION.—A new French variety of vigorous growth. Flowers are bright pink, produced evenly all over the plant. Each 20c.

PICTA ROSEA.—Wonderfully free flowering. Flower is rosy flesh color, shaded silvery pink, and enlivened with dense clusters of yellow anthers. Blooms constantly. Ea. 25c.

RUBRA.—A constant bloomer. Heavy, waxy green leaves. Flowers rosy scarlet. Each 20c.

THURSTONII.—Remarkable foliage. Under side of the leaves rich purplish red, with prominent veinings. Upper side bronze green, shaded crimson and olive and a metallic luster over all. Flowers rosy white, in clusters. Each 25c.

Profusion Begonia Trio

Three of the free blooming sorts that will delight you. **Profusion**, **Alba Picta** and **Miniata**. One each postpaid, 45 cents.

AGERATUM

PRINCESS PAULINE.—Of dwarf, compact habit, rarely exceeding 15 inches in height. Blue and white colors combined in one flower. Blooms entire season bright and pretty. Each 15c, dozen \$1.50.

STELLA GURNEY.—Deep, even blue. Literally forms a sheet of bloom all summer. Dwarf, compact growth. Each 15c, doz. \$1.50.

WHITE PET.—Pure white; fine for borders or beds. Each 15c, dozen \$1.50.

ANTIRRHINUM

A general favorite for both outdoor and indoor planting. Desirable for decorations in tall vases as cut flowers. Succeeds without extra care. The giant varieties surpass old-fashioned sorts in every way.

GIANT WHITE.—Perpetual bloomer, producing dozens of long spikes of beautiful pure white flowers. Blooms last two weeks. Each 15c, dozen \$1.50.

GIANT YELLOW.—Like white, but color is pure lemon yellow. Each 15c, dozen \$1.50.

KILLARNEY PINK.—The peculiar pink shade seen in the Killarney rose. Each 15c, dozen \$1.50.

GIANT RED.—Bright, and brilliant flower. Each 15c, dozen \$1.50.

ONE each, four colors, postpaid, 50c.

BEGONIAS

Begonias are greatly prized by lovers of house plants. The Rex types are perhaps the most magnificent of all foliage plants, while many of the flowering sorts present wonderful blossoms.

ARGENTEA GUTTATA.—It has purple bronze leaves with silvery markings. Flowers white. Vigorous, strong growing variety of easiest culture. Always satisfactory. Very popular. Each 25c.

ALBA PERFECTA GRANDIFLORA.—We doubt if there is a white flowering variety that equals it. The foliage resembles Rubra but is lighter green, while the flower panicles are much handsomer. Each 20c.

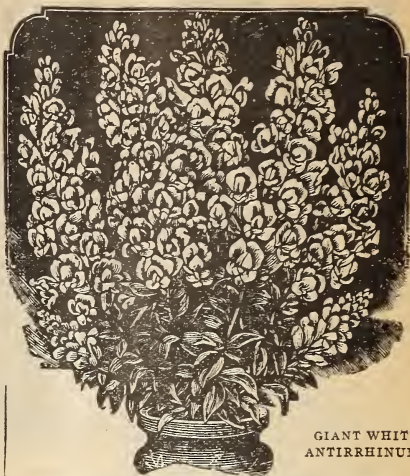
ALBA PICTA.—Leaves of a glossy green color, thickly spotted with silvery white. Flowers white. Each 15c.



REX BEGONIA

REX.—The Rex or King Begonia may well be called the king of foliage plants and they make a magnificent showing with their rich lustrous tints and tropical looking leaves. There are many different varieties, presenting a great range of beautiful markings and splendid color effects. Best results in moist and shaded situations. Each 35c.

VERNON.—Of unusual value for bedding, as it will stand the hot summer sun. Flowers of pink, blush and brilliant red, foliage sometimes margined with bronze purple. Each 15, dozen \$1.25.



GIANT WHITE ANTIRRHINUM

RAINBOW BEGONIA COLLECTION

One each six extra choice varieties: **Argentea Guttata**, **Metallica**, **Picta Rosea**, **Thurstonii**, **Margery Daw** and **Vernon**. Postpaid for \$1.00.

BEEFSTEAK.—(Warszewici.) The old-fashioned Beefsteak Begonia, with thick rounded leaves of deep green with red on reverse side. Each 20c.

CAROLINE LUSERNE.—A splendid, upright, vigorous grower, with long leaves of spotted olive green, a bright wine-red beneath. Enormous trusses of perfect coral-red flowers. Each 25c.

GRACILIS LUMINOSA.—A magnificent new specimen, with flowers large, perfect and plentiful, and never out of bloom. Color the brightest scarlet. Each 25c.

HAAGEANA.—Flowers rosy pink, bright and attractive. Plant tall and shrubby, with hairs on stems and leaves. Each 25c.

MADAM De LESSEPS.—Has very large leaves of silky texture beautifully spotted with silver. Flowers pink and white. Each 20c.

MARGERY DAW.—A beautiful trailing sort. Bright salmon flowers in broad panicles. Green "angel wing" leaves. Each 20c.

METALLICA.—This elegant variety has very large leaves shaded with green, crimson and olive, with a peculiar metallic luster. Flowers clear pink, shaded white. Each 25c.



PICTA ROSEA

A FINE COLLECTION OF BEGONIAS IS ALWAYS A SOURCE OF PRIDE AND GRATIFICATION TO THE FLOWER GROWER.

BRYOPHYLLUM

A curious plant. Leaves thick and heavy. When cut and placed in moist soil little plants start from notches in them and make strong plants in short time. Flowers look like long green, red striped pods, through which breaks a pointed tube of dull red. Each 15c.

BLOOMING CACTUS

NIGHT BLOOMING CEREUS.—This gorgeous cactus bears abundant pure white blossoms measuring twelve inches across. A plant loaded with these flowers is a sight never to be forgotten. Blooms at night and is very fragrant. This is the true, round stemmed variety. Each 20c.

FLAT LEAVED CEREUS.—The common sort, similar to the above, except in form of stem. A good bloomer and desirable. Each 20c.

CHRISTMAS CACTUS.—(Epiphillum.)—Also known as Lobster Cactus. Stems branching and hanging in bunches. Flowers bright red; blooms freely. Each 20c.

BOUGAINVILLEA

GLABRA.—A beautiful plant of strong and rapid growth. The brilliant rosy crimson blossoms are produced from early in March until midsummer. For conservatory or window garden. Each 25c.

BUTTERFLY BUSH

BUDDLEIA.—Hardy, thrives in all soils, grows vigorously from 2 to 3 ft. high, and blooms the first season from spring planting. Flowers are soft shade of lilac color borne in dense spikes 12 to 15 in. in length and 3 in. in diameter. Each 25c. doz. \$2.50.

ASIATICA.—Butterfly Bush, with pure white fragrant flower-spikes. Not quite hardy in North. Glorious pot plant for winter blooming. Each 25c.

BIRDSEYE PEPPER

BIRDSEYE PEPPER.—Grows in manner similar to Christmas Pepper. Fruits are small and pointed, and change colors as they ripen. Each 15c.



CHRISTMAS PEPPER

CHRISTMAS PEPPER

Surprisingly pretty house plant. A round, compact bush 12 to 15 inches in height with dark olive green leaves and covered with curious little heart-shaped fruits of bright colors—purple, white, yellow, orange and red on the same bush. Fruits are edible as small garden peppers. Each 15c.

CROWN OF THORNS

EUPHORBIA.—A very curious and remarkable window plant. Strong growing plant that can be trained over any desired form. Bright scarlet flowers. An object of rare and striking beauty. Is easily grown. It grows wild in Judea, and it is said that from this the crown of thorns was made which was worn by our Saviour. Each 25c.

CYCLAMEN

GIANT FLOWERED.—Foliage broad, massive, graceful, of dark green, beautifully variegated with silver and rose. Immense, fairy-like flowers; quite fragrant. Mixed colors. Each 25c, large 35c.

CYPERUS

UMBRELLA PALM.—A very ornamental plant which throws up slender, round stems about two feet high, surmounted at the top by a whorl of flat, ribbon-like leaves, diverging horizontally. Should have abundance of water. Each 15c, larger 25c.

DRACENA

INDIVISA.—(Fountain Plant.)—Quite generally listed among palms. It is a decorative plant about two feet high, with slender, drooping, green leaves, long and narrow. Each 15c, large 25c.



NEW VARIETIES OF COLEUS.

COLEUS

Whoever has been in our large city parks will never forget the ornamental beds, curving and quaint designs and mingling arabesques of all colors—which look like varicolored rugs spread at short intervals on the smooth lawn. These are formed of Coleus.

PRICES.—All of the varieties of coleus named below each 10c; doz. \$1.00. Mixed varieties suitable for bedding, unnamed, 80c per dozen, postpaid; \$6.00 per 100, by express, not prepaid.

ADMIRAL DEWEY.—Color a bright crimson, edged maroon. A popular and desirable variety because of brightness.

ANNA PFISTER.—Pointed leaves with deep scalloped edges. Color bright golden yellow intermingled with green and crimson. Of dwarf and compact but spreading habit.

BECKWITH'S GEM.—The large leaves have fine scalloped edges. It shows four shades of color, center maroon, bordered red; edge green with point of yellow.

BRILLIANCY.—Bright crimson color, shining. A splendid sort among greens and yellows.

BIZARRE.—A striking variety, with leaf center of bright crimson, edged green and gold.

CHAMELEON.—Combining numerous shades of color in the leaf to form a specimen of great beauty.

CRIMSON BEDDER.—Purplish crimson.

DUNEIRA.—Crimson, with maroon center and scalloped light red edge. A fine showy variety.

FIRE CREST.—Bright crimson with slight golden yellow edge, blotch of deep bronze in center. Splendid.

GOLDEN BEDDER.—Color yellow. This is the best yellow coleus for bedding; deep gold in the sun.

GRACE ADAMS.—Green leaf with red crested edge.

JAMES BRADSHAW.—A fine, showy variety with striped leaf showing colors of crimson and yellow.

MRS. F. SANDER.—Large, creamy white center, bordered green; blotched crimson and purple; fine for pots.

PROGRESS.—Beautifully mottled red, green and bronze. A charming combination of colors.

MRS. JOHN BOEHNER.—Rich maroon bordered with a golden band. Large pointed leaf.

TRAILING BEAUTY.—Of trailing habit. Serrated leaves of fiery crimson; zoned maroon edged green.

YELLOW TRAILING QUEEN.—Like above; color golden yellow.

VERSCHAFFELTII.—Still one of the best; rich, velvety crimson.

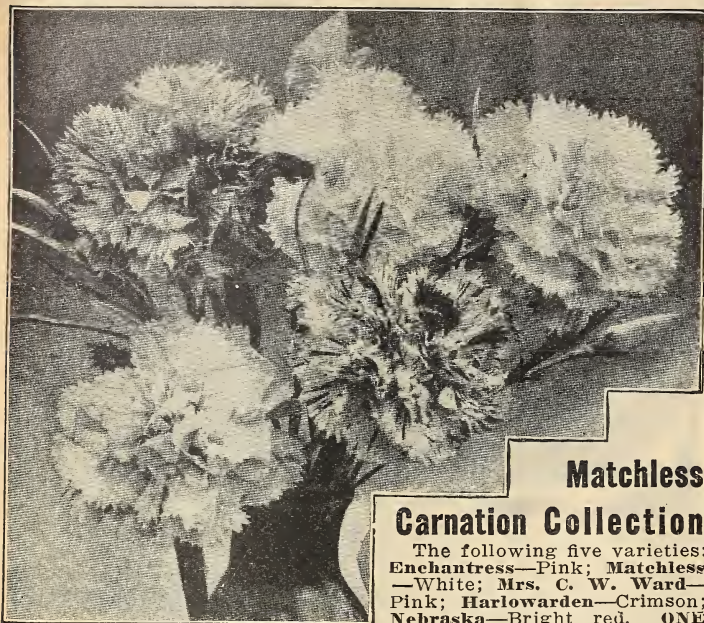


CYCLAMEN.



CROWN OF THORNS.

WE THINK PLANT FOODS DISSOLVED IN WATER ARE THE BEST AND CHEAPEST STIMULANTS FOR ALL POTTED PLANTS.



MATCHLESS COLLECTION

Matchless Carnation Collection

The following five varieties:
Enchantress—Pink; **Matchless**—White; **Mrs. C. W. Ward**—Pink; **Harlowarden**—Crimson; **Nebraska**—Bright red. **ONE EACH OF ABOVE 75 CENTS.**

CHRYSANTHEMUMS

These are now, and deservedly, the most fashionable of all autumn flowers. All these varieties are excellent for pot culture, and the best of their class. Attract universal attention at great flower shows on account of large size, exceptionally fine shape, and handsome colors. Their large size is especially noticeable when grown as a single stem and only one flower is allowed to develop on each plant.

CHAS. RAGER.—(Improved Eaton.)—Fine, large and pure white, incurving with outer petals reflexed. Almost a perfect ball. Each 15c.

DR. ENGUEHARD.—Very large size and solid appearance. A true bright pink; one of the largest and best. A splendid pot plant. Each 15c.

HARVARD.—A new crimson chrysanthemum of splendid form and magnificent full, double, solid, red flower of great size. Each 20c.

JOSEPHINE FOLEY.—A globular Japanese incurved variety of perfect form and growth. Color pure white. Of exceptional merit. Each 20c.

MARIGOLD.—Bloom is a peculiar shade of deep, rich yellow. Flowers are very large, petals incurved, close growth and fine shape. Each 15c.

MAJENTA.—A new color in Chrysanthemums. A bright magenta shade. Robust habit, large flower, fine form and desirable in every way. Ea. 15c.

RICHMOND.—A bright yellow flower, extra large size and very beautiful. Plant is vigorous, and will prove satisfactory to the amateur. A new sort of great promise. Each 20c.

ROBERT HALLADAY.—One of the most popular of yellow sorts, because of early bloom and unique flower. Bloom is of "raggedy" type and very beautiful. A strong, vigorous plant with bloom of large size. Each 15c.

SEDGWICK.—A new pink sort with large blooms, close, compact flowers, strong, sturdy habit. One of the very latest to bloom. Each 15c.

VICTORY.—A fine golden yellow, round globe form, extra large size, very compact. As nearly perfect as yet produced. Each 25c.

WM. TURNER.—Incurved type of bloom, solid and very large. Clear, pure white. Semi-dwarf, very strong and vigorous. Each 20c.

WHITE CHIEFTAIN.—Close, compact blooms of the most popular type and no other carries so firm a flower. A strong, sturdy plant. Each 15c.

WHITTIER.—A bright flower of old gold color, of large size, with very large incurved petals. Each 20c.

YELLOW TURNER.—The golden companion of the favorite Wm. Turner, and we recommend it for pot culture by the amateur. Each 20c.

POMPOM CHRYSANTHEMUMS

These small 'mums are popular again; give showers of bloom after most other flowers are gone.

LILLIAN DOTY, pink.

DIANA, white.

ZENOBI, yellow.

PANAMA, deep red.

MRS. FRANK BEAU, orange.

Any of the above each 15c; per doz. \$1.25. One each of five named for 50c.

CARNATIONS

Fragrant flowers are always sought after, and the rich, spicy odor of the carnation, combined with its various colors, leaves little to be desired. They are easily grown and bloom freely.

BENORA.—A handsome variegated variety, color white with irregular streaks of red. A beautiful composite flower which is very popular. Each 20c.

ENCHANTRESS.—Charming variety of immense size and delightful blush pink color. Each 20c.

HARLOWARDEN.—A bright, dazzling crimson very free bloomer; flowers on long stems. Each 20c.

HERALD.—A bright and beautiful shade of scarlet. Plant a good grower, strong and free blooming. Flowers are large. Each 20c.

MATCHLESS.—Pure white, of extra large size, perfect in form and of great substance. Plant vigorous, bearing the flowers on long, stiff stems. Petals beautifully fringed. Each 15c, dozen \$1.50.

MRS. ACKERHURST.—A new bright pink variety of special value. It is not only lovely in color but it is strong, vigorous and free flowering. Each 20c.

MAINE SUNSHINE.—A new yellow carnation which is very promising. Color is bright and attractive. Each 25c.

MRS. C. W. WARD.—This is a beautiful deep pink. Extra large flowers on strong stems. Ea. 15c.

NEBRASKA.—A fine deep red flower. Blooms freely, gives better results as a pot plant for amateurs than most sorts. Each 25c.

SUPREME.—Finest pink carnation; distinguished for perfect form and large bloom. Each 20c.

THENANTHESIS.—A splendid, brilliant scarlet flower, the most popular color. Each 20c.

WHITE WONDER.—Large flowers of the purest white. Valuable for garden planting. Each 20c.



INTENSITY

LOYALTY COLLECTION

Four finest novelty Chrysanthemums; one each Chieftain, Intensity, Liberty and Loyalty, postpaid, for 75 cents.

LOYALTY.—Color is the popular bright yellow. Prized for the beauty of the bloom. One of the best of the newer yellow sorts. Each 25c.

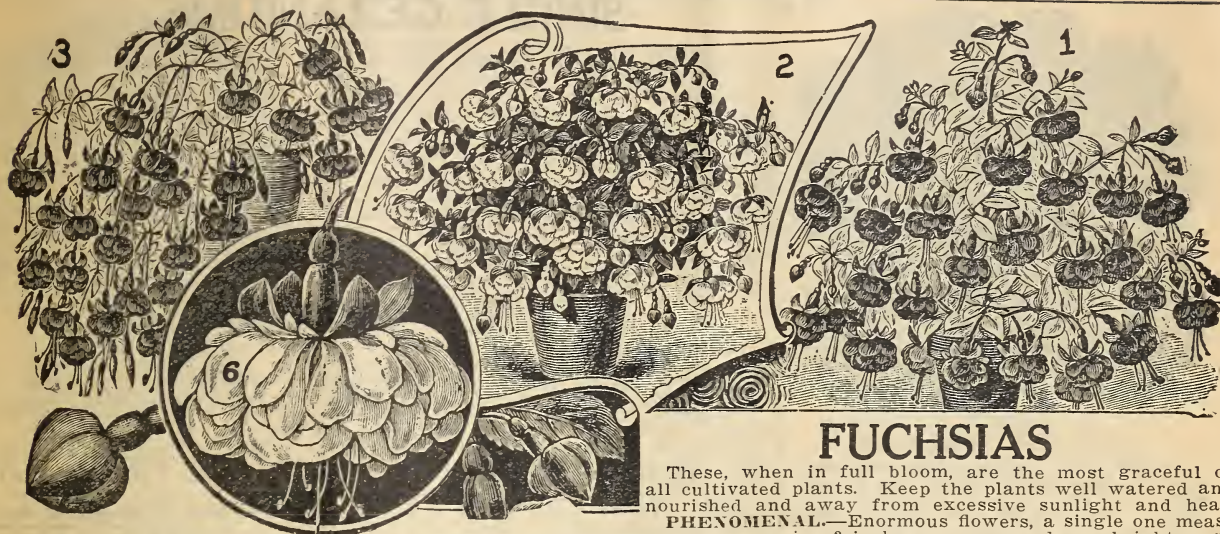
LIBERTY.—A companion flower to the above, pure white in color. Grow strong and vigorous. Immense flowers which delight the grower. Each 25c.

CHIEFTAIN.—This is well named. It is chief in size, color, form and vigor. Color is a bright shining pink, with a soft richness of tint. Petals are incurved and blossom is compact. Strong, upright grower. Each 25c.

INTENSITY.—A dark, velvety crimson. No reverse is noted as the petals are solid color. Form recurved, solid. The most satisfactory solid red chrysanthemum. Each 25c.



ROBERT HALLADAY



FUCHSIAS

These, when in full bloom, are the most graceful of all cultivated plants. Keep the plants well watered and nourished and away from excessive sunlight and heat.

PHENOMENAL.—Enormous flowers, a single one measuring 3 inches across; sepals are bright scarlet, rich purple corolla, very double, flaked with red. Each 20c.

SPECIOSA.—Greatly prized for its profuse blooming qualities. Blossoms single. Sepals are more elongated than other sorts, and of soft rosy pink color. Each 20c.

ROSAINES PATRIE.—(See Cut No. 2.)—Grand double white variety. Flowers of enormous size, sepals bright carmine; large, pure white, double corolla. Each 15c.

TRAILING QUEEN.—(See Cut No. 3.)—Of beautiful trailing habit. Fine for hanging baskets. Single, bright, rich scarlet and purple flowers. Each 20c.

JESSIE.—Blooms extra large size; superb coloring. Tube and sepals bright, glowing crimson, corolla very rich violet purple, very double and widely extended. Each 20c.

GUSTAV NADAUD.—Sepals very brilliant red, corolla double, purple. A giant flowered sort. Each 20c.

STORM KING.—(See Cut No. 6.)—The standard contrasting variety, with red sepals and double, white corolla. The most popular type. Each 20c.

BLACK PRINCE.—Of upright, robust growth. Single blossoms. Tube and sepals bright carmine, sepals large and broad with pale green tips; violet pink corolla. Each 20c.

MONARCH.—By far the largest of the single varieties. Its immense blooms are very dark purple. Each 15c.

SUNRAY.—Colors clear yellow, golden bronze, and red, are combined. Flower is pink or deep rose sepals with bright carmine corolla. Each 25c.

RAINBOW FUCHSIA BARGAIN

One Choice Plant each of Storm King, Jussica, Black Prince and Speciosa, giving a wide range of types and colors. **FOUR PLANTS, POSTPAID, FOR 65c**

FERNS

FLUFFY RUFFLES.—(Scholzei.)—A new upright growing variety, dark and rich in color. Fronds are finely cut. The vigor, habit and color of this fern are far superior to ordinary sorts. Each 25c; larger sizes 50c, 75c and \$1.00 each.

BOSTON FERN.—(Improved Sword Fern.)—This is a wonderfully healthy, rapid growing and graceful house plant. Thrive in all rooms; gas or furnace heat does not seem to injure it. Its sword-like fronds, on large specimens, attain the length of 5 to 6 feet, produced in bewildering mass, arching, curving and interlacing in every conceivable direction. Each 20c; large plants 35c and 50c and \$1.00.

TEDDY, JR.—A fine, compact fern. Can be grown in much less space than any other of the Boston type. Each 20c.

WHITMANI.—Whitmani is of dwarf growth, compact and a wide, stocky shape. The fronds are erect and less liable to revert to the original Boston type. Each 20c; large 50c; extra fine specimens \$1.00.

ELEGANTISSIMA.—A sport from the Ostrich Plume fern. The side pinnae being subdivided, makes both sides of the frond equally beautiful. The plant is compact, with wide fronds. Each 20c; large plants 50c.

VERONA.—(Baby's Breath.)—An elegant small Ostrich Plume fern. Fully equal to the best of this type in plumpness and graceful form, but far more dainty and exquisite. Each 25c, large 50c.

MACKAWA.—Similar to the original type of Boston fern in robust growth. The fronds are not so long, and are somewhat curled and crested after the ostrich plume type. Vigorous, upright habit makes it desirable. Each 25c, large 50c.

OSTRICH PLUME FERN COLLECTION

One each of Mackawa, Elegantissima, Teddy, Jr., Whitmani, four distinct and different types, postpaid for only 75c.

DAINTY SMALL FERNS

MAIDEN HAIR FERN.—(Adiantum Cuneatum.)—Very popular. Most graceful and useful of all for cut flower work. Each 20c.

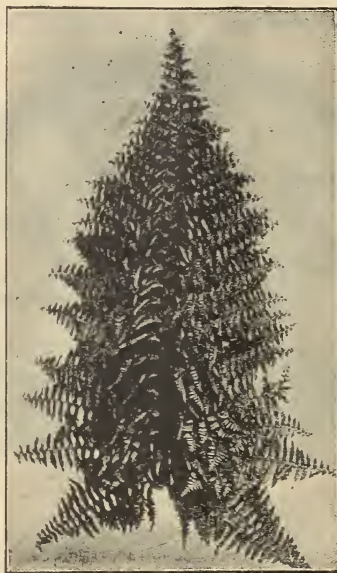
HOLLY FERN.—(Cryptomeria Falcatum.)—Rather broad, dark, glossy green foliage. Quite easily grown; ornamental. Each 20c.

CRESTED FERN.—(Pteris Wimsetti.)—One of the most popular of the small ferns. Striking lanceolated foliage; upright growth. Each 20c.

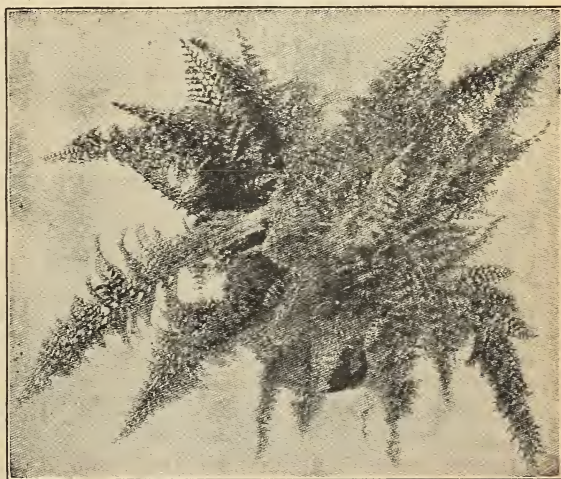
DAGGER FERN.—(Aspidium Tsussimense.)—A miniature sword fern. Adapted to small ferneries or fern dishes. Each 20c.

DAINTY FERN COLLECTION

One each above four varieties of table ferns for 65c, postpaid.



FROND OF ELEGANTISSIMA FERN



FLUFFY RUFFLES FERN

SINGLE GERANIUMS

Geraniums are the most easily grown and satisfactory of all flower plants and only the rose can vie with them in popularity. After careful comparison we have selected the following as the best:

AUREOLE.—(Mad. Bruant.)—Fancy flowered sort; remarkable colors. Each floret is large, white center beautifully veined with carmine lake, radiating into a handsome aureole, each petal being bordered bright pink. Each 25c.

BLACK PRINCE.—A very dark rich, velvety crimson. The nearest black known in single geraniums. Each 20c.

PHOEBE.—Dwarf, compact, extremely free flowering, seemingly every joint producing a spike of bloom. Color deep rose. Each 25c.

RADIUM.—Magnificent, well formed flowers, produced on enormous trusses in great profusion. Color brilliant orange scarlet; foliage large and fine; luxuriant, branching, and robust. Each 20c.

SNOW QUEEN.—Grandest single pure white geranium in existence. Vigorous and healthy growth. Do not turn pink in sun. Each 25c.

DOUBLE GERANIUMS

APPLE BLOSSOM.—(Mrs. Lawrence.)—Shining salmon, tinted white. Free flowering; dwarf, compact habit. Extra fine as a pot plant. Each 25c.

BEAUTY POITEVIN.—Conceded one of the best semi-double bedding sorts. Color salmon pink, shading to clear salmon in the center. Each 20c.

CARUSO.—One of the newer varieties that will prove popular. Color bright orange scarlet, large truss, large florets and vigorous habit. Each 25c.

CURIOSO.—Double "Bird's Egg" geranium. Blooms dotted dark pink on light pink ground and are beautiful. Each 25c.

EL CID.—Choice bedding sort. Bright scarlet, a rich, dazzling shade. Each 20c, dozen \$2.00.

JEAN VIAUD.—Color a bright, rosy pink; distinct white blotch in center. Each 20c.

GLORY DE FRANCE.—Petals white, veined with carmine rose. Each 20c.

IMPROVED LA FAVORITE.—The best double white geranium. It is a strong grower and a profuse bloomer. Each 20c, dozen \$2.00.

SCARLET BEDDER.—Type of S. A. Nutt, but color is brighter. Each 20c, dozen \$2.00.

S. A. NUTT.—The best crimson. Takes the lead as a bedding variety. Each 15c, doz. \$1.50. By express, not prepaid, 100 for \$11.00. Ask for price on large plants.

MARVEL.—A bright scarlet; larger than S. A. Nutt, and counted the best bright red for bedding. Each 20c, dozen \$2.00.

FAVORITE DOUBLE GERANIUM COLLECTION

La Favorite, Curioso, Caruso, S. A. Nutt, Apple Blossom, and Marvel.

One each of the above, giving a range of colors in the standard sorts which are universal favorites, for \$1.00, postpaid. This collection from 4-inch pots, large plants, by express, not prepaid, for only \$1.50.



LA FAVORITE

IVY LEAVED GERANIUMS

CORDEN'S GLORY.—Fine, bright scarlet; large, bold, full flowers; constant bloomers; one of the very best. Each 25c.

ALLIANCE.—Flowers large, semi-double and fine. Exquisite shade of delicate lilac white, upper petals feathered, blotched bright crimson rose. Ea. 20c.

CAESAR FRANK.—Double as a Crimson Rambler rose. Specialist claim this to be the best Ivy Geranium. Color soft, rich crimson scarlet, shaded rose at base of petals. Foliage clean, waxy green. Vigorous, quick growing and strong. Each 20c.

EDEN MARCHI.—Has enormous sized flowers; color beautiful salmon rose, slightly shaded violet. It is an improvement on the Charles Turner. It is a strong, free grower, producing flowers at almost every joint, which are full double and perfect in form. Each 20c.

JEAN D'ARC.—Very large and finest white in existence. Perfectly double, white as snow; flowers literally cover the plant when in full bloom. Each 20c.

FANCY LEAVED GERANIUMS

MRS. POLLOCK.—Magnificent. Green leaf disc, overlaid by beautiful bronze red, belted with bright crimson, outwardly margined with golden yellow. Very distinct in its markings. Each 30c.

WM. LANGGUTH.—Plant is short and stocky; beautiful deep green leaves, bordered with a broad, pure, snow white band. Flowers extra large, bright red, showing magnificently against the white foliage. Each 30c.

MAD. SALLEROI.—A very compact variety of silver leaf geranium. Fine for massing or bordering; thrifty; leaves green, edged with white. Of special value for edgings or ribbon work. Each 15c, dozen \$1.50.

CRYSTAL PALACE GEM.—Yellow, with green disc; fine bedder. One of the oldest of the fancy leaved sorts, but popular. Each 20c.

MOUNTAIN OF SNOW.—Finest of this class for ribbon lines or massing; leaf bright green, margin broad silver white; single scarlet flowers. Each 20c.

HAPPY THOUGHT.—Tricolored with dark green foliage; creamy white center with dark band about the light zone; flowers bright scarlet. Each 20c.

GOLDEN CIRCLE.—Green foliage; golden edging; flower scarlet. Each 20c.

HAPPY THOUGHT COLLECTION.—Happy Thought, Golden Circle, Mad. Salleri, Crystal Palace Gem, Mountain of Snow, Mrs. Pollock. Six of the finest fancy leaved sorts in splendid contrast for only \$1.00, postpaid.



WM. LANGGUTH GERANIUM

THE GERANIUMS LISTED IN THIS CATALOGUE ARE INEXPENSIVE, AND OUR LIST IS THE CREAM OF KNOWN VARIETIES.



NIGHT BLOOMING JASMINE

IMPATIENS

SULTANA.—Beautiful plant producing waxy, bright flowers of rosy scarlet almost continuously, winter and summer; suitable for pot or garden culture. Compact growth; almost perpetual bloomer. Ea. 15c.

HOLSTIL.—Strong, robust growing sort with brilliant vermillion colored blossoms. One of the best. Each 15c.

PINK BEAUTY.—Well named, the color being a most beautiful shade of clear pink. Each 15c.

JASMINE

MAID OF ORLEANS.—A beautiful plant of easy culture, fine grower, good bloomer, very fragrant and of waxy white appearance. Each 25c.

NIGHT BLOOMING.—(Cestrum Parqui.)—World famous variety producing greenish white flowers incessantly. Strong fragrance after dark. Each 25c.

CAPE JASMINE.—(Gardenia Florida.)—Pretty low growing evergreen shrub. Thick, glossy green leaves, waxy white double flowers of delicious sweetness, valued for winter flowering in house or conservatory. Each 30c.

GRANDIFLORUM.—An old favorite variety and most satisfactory. Valuable for winter blooming. Flowers white, star-shaped. Fragrant. Each 20c.

REVOLUTUM.—A climbing variety with deep yellow single flowers and glossy foliage. A beautiful plant. Each 20c.

One each five Jasmines only \$1.00.



WEeping LANTANA

GREVILLEA

SILK OAK.—One of quickest growing of ornamental house plants. Easy to manage, grows rapidly and is pretty in all stages of growth. With its long, drooping silky foliage it reminds one of a palm or fern. Young growths are light bronze color, tips covered with soft down resembling raw silk. Each 15c.

HIBISCUS

GRANDIFLORA.—Large, shrub-like, woody plant, bearing immense single red flowers. Each 15c.

PEACHBLOW.—Flowers very fine, large, double and of a charming rich, clear pink, with deep crimson center. Does not always appear double when first in bloom, but as the plant ages it takes on double form. Each 15c.

FRAGRANT HELIOTROPE COLLECTION

One each of the five varieties named in column below for 70c.

HELIOTROPE

These are universal favorites on account of their delightful fragrance. They bloom equally well as bedding plants in summer, or in pots in the house during winter.

RUSSON FLEURI.—Semi-dwarf. Very large trusses of large flowers. Color violet; star-shaped eye. Each 15c.

PRINCE CHARMANT.—Beautiful foliage and large trusses of mauve blue flowers. A novelty of merit. Each 15c.

MAD BRUANT.—Very large trusses of blue flowers. Each 20c.

FLORENCE NIGHTINGALE.—Very large trusses of dark lavender flowers. Each 15c.

SNOW WREATH.—Superb large clusters deliciously fragrant flowers, nearly white. Each 15c.

JERUSALEM CHERRY

An old-fashioned plant grown for its showy berry-like fruits which remain on plant for a long time. Used generally in window gardening, but will grow quite large. Each 15c.

LANTANA

A most satisfactory plant for outdoor bedding and blooming all winter in the house. Flowers resembles the Verbena, borne on a woody plant.

ALBA.—The best, largest and free blooming white variety. Pleases everyone. Ea. 15c.

AURORA.—Fine grower. Flowers bright pink. Blooms very freely and is a lovely flower. Each 15c.

PERFECTION.—Variegated foliage, unusually handsome. Outside florets pink with rose center; inside florets very light sulphur yellow, orange center. Blooms freely. Each 15c.

GOLD CUP.—A dwarf, compact grower. Bears very pretty lemon yellow flowers with golden yellow center. Each 20c.

WEeping.—Beautiful trailing sort; desirable for hanging baskets, vases, pots or open ground. Profusion of pink flowers. Each 20c.

RADIATION.—Semi-dwarf. Color brilliant red with orange yellow center. Distinct and beautiful blending of color. Each 15c.

VERSICOLOR.—First opens cream yellow with red center. Cream gradually changes to pink. Flower is fine at all times. Each 15c.

RADIANT LANTANA COLLECTION

One each; Radiation, Versicolor, Alba, Aurora and Weeping Lantana, 75c postpaid.

PANSY PLANTS

Pansy plants are quite a specialty with us and we sell immense numbers of them every year. Our plants are grown from the very best quality of seed and are strong and vigorous and have beautiful, large, velvety flowers of all shades and colors. Extra large, strong plants of American Giant at 75c per doz., 4 doz. for \$2.40, postpaid.

NEW MAMMOTH
FLOWERING
HELIOTROPE

HYDRANGEAS

AVALANCHE.—Splendid large white flowers. Easy to grow; remarkably free flowering. Each 25c.

LA LORRAINE.—At first pale rose turning to bright pink. Large blooms. Splendid variety. Each 25c.

MME. E. MOULIERE.—White; extra size. Awarded medal at National Flower Show at Boston. Each 20c.

MOUSELINE.—Light amber pink turning brighter as the flower ages. Of extra size. Each 25c.

OTAKA.—Used for Easter decorations. Enormous trusses of intense pink flowers. Excellent specimen plants for porch or lawn. Blooms entire season. Each 20c, large, 50c and 75c each.

E. G. HILL.—One of the finest of pot hydrangeas. Superb, color pink. Each 25c.

HOUSEHOLD HYDRANGEA COLLECTION

One each of the above six fine pot hydrangeas, postpaid, for \$1.00.

MARGUERITE DAISY

WHITE.—A French improvement on the old White Marguerite which has for many years been so popular. Is much larger and will produce ten times as many flowers. Each 15c, dozen \$1.50.

MRS. F. SANDER.—A superb new variety of double white Marguerite, so lovely as to be a firm favorite wherever known. Owing to continuous, free blooming habit and beautiful lasting blooms on long stems, is peculiarly adapted for beds or for use as cut flowers. Each 20c.

SOLIEL D'OR.—A very popular sort with flowers of a very pretty canary yellow color. It blooms freely and continuously. Each 15c.



AMERICAN GIANT MIXED PANSIES

THE NEW FRENCH HYDRANGEAS ON THIS PAGE MAKE MAGNIFICENT DECORATIVE PLANTS FOR WINTER BLOOMING.



FANTASIA
DOUBLE PETUNIA

PETUNIA COLLECTION

One each of the four choice double petunias named above
POSTPAID FOR 75 CENTS

PEPEROMIA

SILVER STRIPED.—A beautiful ornamental basket or pot plant for the home. Grows vigorous and thickly massed. The leaves are wax-like, thick and fleshy, and distinctly variegated white and green. Easily grown and thrive in living rooms. Each 25c.

OTAHEITE ORANGE

An extra fine plant, with glossy green leaves, the true fragrant orange bloom, an abundant little bright oranges. With good culture they are never out of fruit from one year's end to another. In beauty, grace and fragrance there is nothing like its leafy sprays of bloom. We cannot ship these to the states of Arizona, California, Florida or Mississippi. Each 25c, large \$1.00.

PONDEROSA LEMON

It is a true ever-bearing variety. Blossoms waxy white and as fragrant as orange blossoms. Fruit has been taken from the tree weighing over 4 lbs. The lemons have very thin rind for such large fruit. It fruits when quite small and makes a lovely house plant. It fruits freely second year. We cannot ship these to the states of Arizona, California, Florida or Mississippi. Strong plants each 25c, postpaid. Two-year-old plants \$1.00 each.

STRAWBERRY GUAVA

A useful and ornamental pot plant; wonderfully productive. Has dark, shining green foliage, with fruits of striking claret shade, about size of hulled walnut. Fruit is used for dessert and makes a most attractive jelly. It will have buds, blossoms and fruit in various stages of development on the plant at one time. Each 25c.

RUBBER TREE

(Ficus Elastica.)—This is the true rubber tree from which is secured the rubber of commerce. Grows slowly in temperate climate, and under artificial conditions and is adapted for house or conservatory. Highly valued everywhere for their tropical appearance. Leaves very large, thick and leathery and of a beautiful shining green color. It endures the dry air of living rooms remarkably well. They are difficult to propagate and will remain high price. Each \$1.00, postpaid. Larger sizes \$2.00, by express, not prepaid.

DOUBLE PETUNIAS

Extremely popular because of striking contrasts in the colors of each flower and because they are always in bloom. Difficult to grow from seed as only a percentage are double.

SNOW QUEEN.—Elegance and purity are strongly covered by this lovely flower. Each 25c.

CLIO.—A splendid shade of purple. Flowers extra size, of nearly solid color and extremely striking appearance. Each 25c.

FANTASIA.—Handsome double white and purple petunia. Striking variegation. Beautiful. Ea. 25c.

PINK BEAUTY.—Many shades of pink in this flower. The general effect is a bright, pleasing pink. Each 25c.



PEPEROMIA



PONDEROSA LEMON

THE TROPICAL COLLECTION

Everyone is interested in the manner of growth of the tropical plants and we offer some of these which are suited for house culture, believing they will be popular. We cannot mail this collection to the states of Arizona, California, Florida or Mississippi.

Ponderosa Lemon, Otaheite Orange, and Strawberry Guava. One strong plant of each for **ONLY 60 CENTS POSTPAID**

PALMS

The most elegant and highly decorative of all plants and the low prices at which they are now offered place them within reach of all.

KENTIA BALMOREANA.—This is considered one of the hardiest and best in cultivation. A rapid grower. Each 45c.

ARECA LUTESCENS.—A truly graceful and beautiful palm. Strong, upright grower with long, finely cut leaves. Easy to grow and very satisfactory. Each 45c.

KENTIA FOSTERIANA.—A fine variety of the Kentia class. Vigorous and will prosper with ordinary care. Each 45c.

PANSY GERANIUM

Beautiful flower belonging to the Pelargonium class. Flowers are of medium size and have white throat. Each petal is shaded toward the center with a rich lavender pink and a dark maroon blotch in the center. Of easiest growth, dwarf in habit, and as it requires little attention it is invaluable as a window plant. Colors and markings most extraordinary. Each 25c.

PELARGONIUMS

Known as Lady Washington geraniums.

EASTER GREETING.—Enormous flowers, bright amaranth red, each petal being marked with large black blotch. Each 35c.

THE MAID.—A fine sport of Easter Greetings, producing reddish carmine flowers with five black blotches with purplish carmine. Each 40c.

GARDENER'S JOY.—Ground color apple blossom pink, two upper petals blotched carmine brown, the florets are 3½ inches in diameter. Dwarf, sturdy nature. Each 35c.

GLORY.—Of very large size. The petals are lavender blue and contain two large crimson spots, distinctly veined. New color. Each 40c.

LUCY BECKER.—Ground color with rose pink with five large reddish brown blotches, edged scarlet lake. Each 40c.

LADY WASHINGTON COLLECTION

One each five Pelargoniums, postpaid for \$1.60.

PRIMROSE

MEXICAN.—It has blossoms 2 to 3 inches across, of beautiful pink color. Each blossom keeps perfect many days and when it droops others take its place. Each 15c.

OBCONICA.—Lovely perpetual blooms. Flowers are of rose lilac shading white. Each 25c.

CHINESE.—Most popular flower for winter blooming. Flowers all shades of color; distinct and beautiful markings. Each 20c.

THE BABY.—(Primula Forbesi.)—Forms a dense rosette of fleshy leaves from which spring flowering stems, 12, 15 and even 20 inches tall, supporting whorls of dainty flowers of a delicate rosy lilac with eye of pale gold; not more than a half inch in diameter, but produced abundantly. Each 20c.

ONE EACH, 4 PRIMROSES, 65c



OTAHEITE ORANGE

OUR TROPICAL FRUIT COLLECTION IS AN UNUSUAL OFFER AND WILL PLEASE THOSE WHO WANT SOMETHING DIFFERENT

EVERBLOOMING ROSES

We consider these not only the most popular, but also the most satisfactory of all flowers. Our plants of the several varieties are mostly grown on their own roots and are strong, healthy and vigorous. This list represents the choicest selections from nearly a thousand varieties and we are sure every one will prove satisfactory. Roses sent by mail or express prepaid in perfect condition, to the most distant parts of the United States, and we guarantee safe arrival. Directions for culture sent with every package.

CHAMPION OF THE WORLD.—The champion bloomer. It is claimed that one plant will produce more flowers during the year than ten of any tea rose. Color is a deep, rich, rosy pink. Each 20c.

ETOILE DE FRANCE.—Clear red or crimson velvet shade. Without doubt the finest hybrid tea rose in our list. Each 20c.

FRANCISCA KRUGER.—A strikingly beautiful rose of deep coppery yellow; quite unique and distinct from all others. Of large size and very symmetrical. Each 25c.

GOLDEN BEDDER.—The finest golden yellow tea rose. A strong, vigorous and healthy plant and a profuse bloomer. By some it is called Star of Lyons. Each 25c.

GRUS AN TEPLITZ.—One of the brightest colored roses known. When first opened it is dark, rich crimson, quickly changing to a bright scarlet. Blooms continually. Each 20c.

KAISERIN.—Decidedly the finest white ever-blooming hardy garden rose. Soft, nearly white, lightly tinted lemon at center. Free, continuous bloomer. Buds of faultless shape, developing into large, very double flowers of exquisite fragrance. Each 25c.

KILLARNEY.—The buds are especially long and the color is a peculiarly bright, living pink, more beautiful than any other pink rose. A free bloomer, easily grown, of strong, healthy constitution. Each 25c.

LA FRANCE.—La France roses are certainly the nearest perfection in flowers. Distinctive characteristics are the true La France fragrance and beautiful form. Prized for profuse bloom. Each 25c.



GOLDEN
BEDDER

RICHMOND.—A strong rival of the American Beauty. It is a beautiful scarlet crimson, as free blooming as any tea rose, and flowers are exceedingly fragrant. A standard variety because of its merit. Ea. 25c.

SUNBURST.—A splendid large rose, ranking with Killarney in size and form. Color a beautiful coppery yellow, shaded lighter; a brilliant flower. Each 25c.



LA FRANCE

BEAUTIFUL HARDY ROSES

Constantly grow in value. The roses below named are growing plants in from 2 to 2½-inch pots. We prepay postage or express charges.

AMERICAN BEAUTY.—One of the best and most valuable roses, both for garden and house culture. Color rosy crimson, exquisitely shaded and very handsome. Extra large, full flowers, fine buds. A good bloomer. Each 35c.

BARON DE BONSTETTEN.—Rich, dark red, passing to a deep, velvet maroon, nearly black. A large flower, very highly scented. Each 25c. Large 2-year-old plants each 60c.

CLIO.—Color flesh pink, shaded rose in center. Large flower of fine form. We think very highly of it. Each 25c.

COQUETTE DES ALPS.—Flowers are large and full, finely formed and pure white. Profuse bloomer. Each 25c.

FRAU KARL DRUSCHKI.—Beautiful white variety often called White American Beauty, because habit and growth resemble that popular sort. Each 30c. Large 2-year-old plants each 60c.

GENERAL JACQUEMINOT.—One of the grandest of roses; nothing can surpass them in beauty. Color a rich, dazzling scarlet, shaded with deep, velvety crimson; a superb, glowing color. Each 25c. Large 2-year-old plants each 60c.

J. B. CLARKE.—Awarded gold medal of National Rose Society. A hybrid perpetual of unique color, being an intense scarlet, shaded with deep, velvety crimson-maroon. Flowers very large and fine. Strong, vigorous grower. Each 25c.

MRS. JOHN LAING.—For outdoor planting is undoubtedly the finest. A beautiful soft pink; delicious fragrance; very double and of large size. A constant bloomer. Each 25c. Large 2-year-old plants each 60c.

MADAME PLANTIER.—Flowers borne in great profusion; are pure white; hardy as an oak. Each 25c. Large 2-year-old plants each 50c.

PAUL NEYRON.—Double flowers of shining carmine pink. Largest rose known, and one of the most prolific. An exceptional grower, making shoots 4 to 5 feet high. Offered in our Iron Clad Collection. Each 25c. Large 2-year-old plants each 60c.

HUGH DICKSON.—Superb variety from England. Color crimson flamed scarlet. Blossoms large, highly perfumed. Each 35c.

ULRICH BRUNNER.—A rich, glowing crimson scarlet; flowers of exquisite shape. The deep red in our Iron Clad Collection. Each 25c. Large 2-year-old plants each 65c.

AMERICAN BEAUTY ROSE COLLECTION

Who has not heard of the American Beauty, the rose famed in poetry, story and song? The cut flowers are frequently sold during the winter at \$10 to \$25 per dozen. What flower lover has not hoped some day to have a "garden of roses" with American Beauties galore? This collection has proven very popular and has given satisfaction to planters everywhere.

AMERICAN BEAUTY, WHITE AMERICAN BEAUTY, BLACK BEAUTY, STRIPED BEAUTY, PINK BEAUTY and MOSS BEAUTY. By mail, prepaid.

SPECIAL PRICES: One each of the above for \$1.50. In two-year plants \$3.00.

GOOD ROSES ARE EXTREMELY SCARCE THIS YEAR AND WE HAVE CONFINED OUR LIST TO THE CHOICEST SORTS ONLY



AMERICAN
BEAUTY
ROSE

BABY RAMBLER ROSES

This type of roses has created a furore among rose planters in America. They are hardy and fine for permanent beds or for decorative landscape effects.

CRIMSON BABY RAMBLER.—A cross of the Crimson Rambler and a Polyanthus variety. The bush is vigorous, absolutely hardy, about 12 inches in height, and plants are in bloom every day of summer and fall. A single panicle has borne 120 blooms. Each 25c. Large 2-year-old plants 65c.

BABY TAUSENDSCHON.—Dwarf form of the "Thousand Beauties" rose. Like the climbing variety, it shows many shades of color, from carmine to shell pink, in the clusters at the same time. It produces blooms in wonderful profusion and a few plants will give the effect of many varieties in a single bed. Each 25c.

WHITE BABY RAMBLER.—(Catherine Zeimet.)—The true Baby Rambler type, with pure white flowers. Deliciously fragrant and perfectly hardy. Each 25c.

PINK BABY RAMBLER.—(Phyllis.)—A counterpart of the Crimson Baby Rambler except that color is a bright, shining pink. Each 25c.

ONE EACH OF THE ABOVE FOUR BABY RAMBLERS 85c.

HARDY CLIMBING ROSES

For porches and trellises nothing surpasses the climbing roses. Following are recommended as permanent plants.

CLIMBING AMERICAN BEAUTY.—Real American Beauty in flower, foliage and fragrance, but grows as a climber, often making 15 ft. in a single season. Flowers are very large, from 3 to 4 in. in diameter, of fine form and are borne in great profusion. A continuous bloomer and hardy. Each 30c. Large 2-year-old plants each 75c.

THOUSAND BEAUTIES.—(Tausendschon.)—blooms produced in clusters and show different shades at same time, deep pink, grading to light shell pink. It is this feature that gave the rose its name of "Thousand Beauties." Not so thorny as most sorts. Each 25c.

SEVEN SISTERS.—One of the old standard climbing roses. Crimson, changing all shades to white. Blooms in clusters. Each 25c.

PRAIRIE QUEEN.—Always popular. Grows everywhere, under any conditions. Bright pink, full and double; a large flower. Each 25c.

BALTIMORE BELLE.—Double blush white; large clusters covering plant with bloom. A favorite, popular because of hardness. Ea. 25c.

CLIMBING ROSE COLLECTION

One each of the five Climbing Roses for \$1.00.

RAMBLER ROSES

BLUE RAMBLER.—(Veilchenblau.)—The wonderful rose, having glossy green foliage and large clusters of medium sized flowers. Color is an attractive shade of violet crimson, later changing to a more distinctive and unique shade of violet-blue. Strong plants each 25c.

EXCELSA RAMBLER.—Greatly improved Crimson Rambler. Begins blooming two weeks earlier and color is brighter, more intense crimson; almost entirely free from mildew. Each 25c.

CRIMSON RAMBLER.—Most popular rose in existence, as it is always satisfactory. Many instances reported of 3,000 to as high as 19,721 flowers by actual count, on one bush. Exceedingly hardy. Flowers are produced in large trusses of pyramidal form and of brightest crimson color. Blooms remain on the plant for a great length of time without losing their brightness. Ea. 25c.

YELLOW RAMBLER.—A grand new variety like above except that it is golden yellow. Each 25c.

DOROTHY PERKINS.—A grand new sort remarkably like Crimson Rambler, but flowers more double and beautiful shell pink color. Each 25c.

WHITE DOROTHY PERKINS.—Like the parent variety with pure white flowers. Each 25c.

RAINBOW RAMBLER COLLECTION

One each of the six Ramblers for \$1.00.

We can supply any of the above Rambler Roses in large 2-year-old plants at 50c each, postpaid, or we can give you the entire collection in 2-year plants for \$2.50, postpaid.



CRIMSON BABY RAMBLER

COCHET ROSES

The Cochet roses are everblooming and distinctly beautiful.

MAMAN COCHET.—Buds large and pointed, while the open flowers are extra large, double and bloom all the time. Color is a rich, clear pink, changing to rose. Each 25c.

RED COCHET.—Buds long and pointed; flowers full and perfectly double; color rich, rosy crimson, bright and glowing. Each 20c.

WHITE COCHET.—An exact counterpart of the beautiful Maman Cochet except that it is of purest white. Very desirable. Each 20c.

YELLOW COCHET.—Deep sulphur yellow. True Cochet type; most desirable of yellow roses for outdoor planting. Each 20c.

FOUR COCHET ROSES FOR 75c



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CRIMSON RAMBLER



CLIMBING AMERICAN BEAUTY

FAIRY ROSES

Small rose, marvels of grace and beauty; bloom in cluster.

YELLOW SOUPERT.—(Mosella.)—A choice novelty. The flowers are double; tinted white on a beautiful yellow ground. Each 25c.

LITTLE WHITE PET.—A pure white of perfect shape. Each 25c.

CLOTHILDE SOUPERT.—One of the most popular and satisfactory roses grown. Wonderfully free bloomer. White, shaded pink. Ea. 25c.

CECIL BRUNNER.—Is similar to Clothilde Soupert, except it is salmon rose on yellow ground color. Ea. 25c.

THE FOUR FAIRIES 75c.

MOSS ROSES

CRESTED MOSS.—Deep pink buds surrounded by mossy fringe; fine. Each 30c.

CRIMSON GLOBE.—Large flower; deep, rich crimson; mossy; fragrant. Each 30c.

WHITE MOSS.—Everyone should have one of these lovely plants. Each 30c.

One each Moss Roses 75c.

NOTE PARTICULARLY THAT THERE ARE TWO BARGAIN COLLECTIONS OF OUR CHOICE ROSES OFFERED ON THIS PAGE.

SALVIA

MRS. C. N. PAGE.—The salvias are among the most brilliant and showy bedding plants. This variety is semi-dwarf, grows about 2 ft. high with long spikes of dazzling crimson flowers. Each 20c, doz. \$2.00.

IMPROVED SPLENDENS.—Large, tall and fine, bright crimson flower and dark green foliage. Ea. 15c, doz. \$1.50.

SNOWSTORM.—White flowered, tall growing. A few among a bed of scarlet salvias are unique. Ea. 20c, doz. \$2.

ZANE GREY.—A beautiful purple shade of this popular flower. Fine for mixed beds. Each 20c, dozen \$2.00.

ALFRED RAGANEAU.—An improved splendens type somewhat more dwarf in growth, surpassing the old type in vigor and beauty. Each 15c, dozen \$1.50.

ST. LOUIS.—Blossoms bright scarlet, very large. One of the most brilliant and attractive. Each 15c, dozen \$1.50.

KING ALBERT.—A new shade in salvias. A bright, pleasing pink. Habit and growth equal to any of the others. Each 20c.

ONE EACH, SEVEN SALVIA, POSTPAID, \$1.00.

STROBILANTHE

ROYAL PURPLE.—An excellent bedding plant and a beautiful foliage plant for pot culture. Forms a compact bush 18 inches high, with leaves 5 to 9 in. long, of beautiful metallic purple, shading into light rose; flowers violet blue, borne in immense racemes. Each 25c.

SANSEVERIA

ZELANICA.—Striking in appearance, and will stand down-right neglect. Will grow in a dark, cool room or on the mantle in a heated sitting room. Requires little water yet remains thrifty. Erect, rigid, sword-like leaves, which are thick and leathery, dark green color, beautifully striped crosswise with white. Each 25c, large plants 50c.



SANSEVERIA

mantle in a heated sitting room. Singularly beautiful. Erect, rigid, sword-like leaves, which are thick and leathery, dark green color, beautifully striped crosswise with white. Each 25c, large plants 50c.



MAMMOTH VERBENAS

SWAINSONIA

WHITE.—A beautiful climbing plant. Habit of growth is extremely graceful, and trained up at the side of a window or on a trellis presents lovely light green, feathery foliage, and a splendid profusion of pure white sprays of flowers resembling Sweet Peas. Each 20c.

VERBENAS

Everybody likes Verbenas, as there is no one can help enjoying the sight of a nice bed covered with dark green leaves and brilliant blossoms. We have finest of colors. 10c each, \$1.00 per dozen.

BANNER VERBENA PLANT OFFER

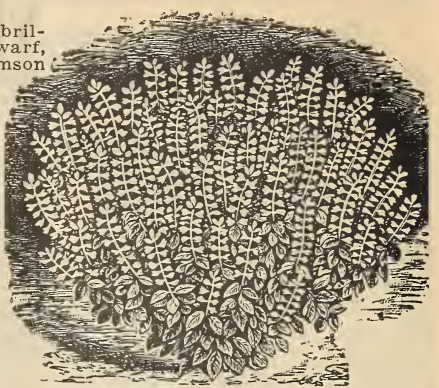
We offer a collection of plants which will fill a bed five by eight feet and we offer you a special.

Six plants Defiance Giant Red Verbena.....50c

Six plants Mammoth Snow White Verbena.....50c

Six plants Superb Large Blue Verbena.....50c

18 Choice Plants in Banner Colors, Postpaid, for \$1.25.



MRS. C. N. PAGE SALVIA



STROBILANTHE

WINDOW GARDEN SUPPLIES

These goods are sent by express or freight, customer paying charges, unless otherwise noted. Note mailing weight and postage required.

WIRE HANGING BASKETS.—Are made of wire; lined with moss and filled with dirt they are very attractive. Light, strong and durable, and have chain attached. By express, 8-in., with enough moss to line it, each 40c; 10-in., each 50c; 12-in., each 60c. If to go by mail add postage for two pounds.

FISH OIL SOAP.—(Usually called Whale Oil Soap.)—For plants infested by vermin. Also used against fungus diseases and will keep trunks of trees free from borers. Lb., by express, 35c. If to go by mail, add postage for 2 pounds.

PAPER FLOWER POTS.—Made of heavy, strong, waterproof paper. Fine for growing vegetable plants, pansies, asters, etc. You need not disturb roots of plants when setting in the open. 2 1/4-in., by express, doz. 10c, 100 for 65c, 1,000 for \$5.00; 3-in., doz. 15c, 100 for \$1.00, 1,000 for \$8.00; 4-in., doz. 25c, 100 for \$1.50, 1,000 for \$11.00. If to go by mail add postage, weight per dozen, 1 lb., per 100, 3 lbs.

SPRINKLERS.—Made of pliable rubber with perforated cap. Large size holds about one pint, small size about one-third pint. Handy for floral work and for washing foliage of house plants. Large, each \$1.25, small \$1.00, postpaid.



SPRINKLER



PAPER FLOWER POT

SULPHO-TOBACCO SOAP.—For a cheap, effective, clean and harmless insecticide this is unexcelled. Quickly exterminates all insect life on plants and flowers. Unsurpassed for rose bushes. It rids the house of cockroaches and is a superior wash for dogs and all animals. Prevents poultry lice. 3-oz. cake, sufficient for 1 1/2 gals. solution, by mail, postpaid, 15c; by exp. 12c. 8-oz. cake, for 4 gals. solution, by mail, postpaid, 30c; by exp. 25c. Six 8-oz. cakes by exp. \$1.35. If by mail add postage. Wt. 6 cakes 4 lbs.

RED SNAPPER PLANT FOOD.—A concentrated food for house plants. Registered in Iowa. Regular size (24-oz. Plant Food and 8 oz. Plant Tonic, with booklet of instructions), postpaid 60c, or by exp. 50c.

STIM-O-PLANT

Concentrated food for plants, in small tablets to be used as needed. No. 1 pkg. (10 tablets) each 20c; No. 2 pkg. (30 tablets) each 35c; No. 3 pkg. (100 tablets) each 75c, postpaid at prices named.

STANDARD HOUSE AND GARDEN FERTILIZER.—Promotes luxurious growth, increases yield, imparts a deep green color to foliage and brilliancy to flowers. A pinch for a house plant, a pound for 200 sq. ft. of ground. Directions with each package. 1/2 lb. 35c; 1 lb. 60c; 5 lbs. \$1.75 Add postage as per table page 1.



EVERY YEAR BRINGS US HUNDREDS OF KIND LETTERS FROM OUR PLANT CUSTOMERS. OUR PLANTS PLEASE THEM

VINES AND BASKET PLANTS

CLERODENDRON

BALFOURII.—Unique and beautiful. It presents a splendid combination of colors, having bright scarlet flowers with creamy white calyx; a profuse bloomer, young plants a foot high bearing several clusters. A strong and rapid grower. Each 20c.

CRIMSON CREEPER

HEERIA ROSEA.—A pot plant highly ornamental all the time. Long, slender and exceedingly graceful vines, red stemmed, with dark, rich green foliage; and are exceedingly pretty as they hang in wavy tresses over the side of a hanging pot or basket. It blossoms during the late winter, spring and early summer; flowers large and of a peculiar shade of bright crimson, and borne in great profusion. Each 15c.

MANETTA

BICOLOR.—One of the handsomest little vines in existence. Easily and quickly grown; blooms continuously. Well adapted for hanging baskets, pot culture, vases or beds. Flower of size and shape shown in cut, brilliant scarlet tipped with clear golden yellow. Blooms constantly and profusely in winter when taken into house. Ea. 25c.

IVIES

ENGLISH.—Old favorite, showy the year round. Hardy in South; will not stand our Iowa winters. Ea. 15c, large plants 40c.

VARIEGATED ENGLISH.—Foliage is prettily marked pure white on dark green ground. A handsome pot plant or for trailing from sides of boxes or baskets. Ea. 15c.

KENILWORTH.—Old familiar trailing ivy. Perhaps the best for shaded places or rooms where light is not very strong. Each 15c, dozen \$1.50.

PARLOR.—Well known, popular as a plant for hanging baskets or vases. Grown with very little trouble. Ea. 15c, doz. \$1.50.

1 EACH 4 IVIES ABOVE ONLY 50 CENTS

VINCA MAJOR

ELEGANTISSIMA.—Handsomest vine to grow in window boxes, hanging baskets, trailing from pots, etc. The long, trailing stems of glossy green leaves are broadly margined and variegated with white. Blue flowers. Each 20c, dozen \$2.00. Large size plants each 35c.

HARRISON.—Similar to the above but with darker variegation. Very popular because of its strong growth. A well grown plant will fill a large hanging basket. Each 20c, doz. \$1.75. Large size, each 35c.

WANDERING JEW (Tradescantia)

An old well known trailing plant nice for growing in hanging baskets, vases, pots or window boxes. Vigorous, rapid grower.

ZEBRINA.—Top of leaf dark bronze, striped silver, reverse side red. Each 15c, 3 for 40c.

STRIPE.—Top of leaf light green, striped white, reverse side light green. Each 15c, 3 for 40c.

MAMMOTH.—Much larger growth than the ordinary sort, color plain green. Each 15c, 3 for 40c.

HANGING BASKET COLLECTION

This illustration of our popular collection but poorly depicts the beauty of a hanging basket filled with appropriate plants, well grown and healthy. We have in this collection chosen a half dozen plants which will give splendid results with little care and may be grown in any window garden.

BOSTON FERN.—The most popular decorative plant in the entire list. Each 20c.

REX BEGONIA.—Most beautiful foliage plant, a source of much satisfaction. Ea. 35c.

WEEPING LANTANA.—Trailing variety of Flowering Lantana. Each 20c.

VARIEGATED VINCA.—The most popular vining basket plant on the list. A favorite with all. Each 20c.

TRAILING FUCHSIA.—Adding much to the collection with its beautiful flowers and foliage. Each 20c.

WANDERING JEW.—The old-fashioned favorite basket plant. Each 15c.

Above postpaid, \$1.00. Or the six plants and one 8-inch wire hanging basket and moss for lining, all postpaid, for \$1.35.



MANETTIA VINE

MISCELLANEOUS PLANTS

Condensed for lack of room.	Each
Abelia, Chinensis	\$.25
Artillery Plant	.15
Aerva, red foliage	.15
Alyssum, double white	.15
Aujuga, blue flower	.10
Carex, variegated grass	.15
Colocasis, Odorata, white	1.00
Cardamon	.25
Coccoloba	.15
Cuphea, cigar plant	.15
Euonymus, variegated	.20
Farfugium, leopard plant	.50
Jasmine, Gracillimum	.20
Jasmine, Primularius	.25
Mesembryanthemum, rose color	.10
Pilogynee	.15
Plumbago, Lady Larpent	.20
Ruellia, blue flower	.20
Russella, scarlet flowers	.15
Sanchezia, yellow foliage	.25
Santolina, silvery foliage	.10
Solanum	.20
Streptosolon	.15
Sweet Myrtle, Jew or Brides	.20
Talinum	.15



HANGING BASKET COLLECTION.



SAXAFRAGA (STRAW-BERRY GERANIUM)

SAXAFRAGA

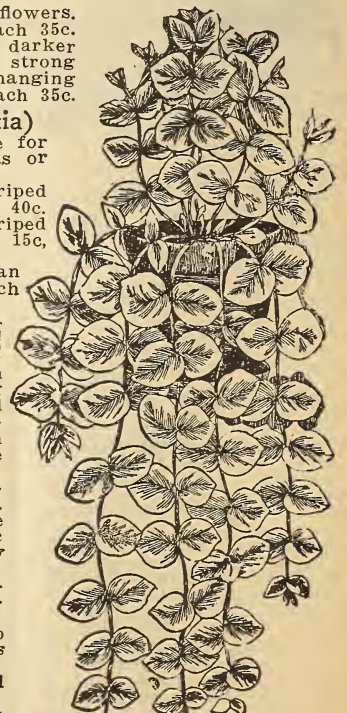
STRAWBERRY GERANIUM.—Well known, much used old plant for hanging baskets or vases. Long strawberry-like runners. Grow vigorously and give satisfaction under hardest conditions. Ea. 20c.

MOONFLOWER

WHITE.—Handsome climber, 25 to 40 ft. high, and covered nightly and on dull days with its white, moonlike flowers. Ea. 20c, doz. \$2.

BLUE.—(Ipomea Leari.)—Flowers are clear, satiny blue, well defined crimson bars. Ea. 20c, doz. \$2.

1 White and 1 Blue Moonflower 35c



VINCA ELEGANTISSIMA

IF YOU WANT TO PURCHASE A HANGING BASKET FILLED WITH ANY PARTICULAR PLANTS, WRITE FOR PRICE COMPLETE.

HARDY VINES

In making a home, plan for future beauty, comfort and happiness by planting a variety of hardy clematis, ornamental vines, shrubs and roses which will constantly grow in beauty and size. We prepay postage or exp. charges at these prices.

AMPELOPSIS

VEITCHII.—(Boston Ivy).—One of the finest climbers for covering walls, as it clings firmly to the smoothest surface, covering it with overlapping foliage, giving the appearance of being shingled with green leaves. It is hardy and grows to large size, attaining a height of 20 to 30 feet in two or three years, clinging to stones, brick or woodwork with the greatest tenacity. Each 25c, doz. \$2.50. Large plants 60c, doz. \$6.00.

ENGELMANII.—This is an improved Woodbine which bears very large, dense and abundant foliage. The leaves are glossy light green in summer, changing to brilliant crimson in autumn. Clings to rough stone or brick without support. Each 25c, doz. \$2.50. Large plants 50c, doz. \$5.00.

ARISTOLOCHIA

DUTCHMAN'S PIPE VINE.—Well known. It takes its name from the singular brownish colored flowers resembling in shape a pipe. The leaves are heart-shaped and retain their color from early spring to late fall. Each, large, 75c.

AKEBIA QUINATA

A perfectly hardy, fast-growing Japan vine, producing flowers in large clusters, of chocolate purple color, possessing a most delicious perfume; the foliage is never attacked by insects. Each 20c; large 60c.

BIGNONIA

RADICANS.—(Trumpet Creeper).—It has clusters of large, trumpet-shaped flowers with orange throat. Grows in almost any soil under trying conditions; hardy. It is one of the most popular of the hardy vines, and is useful and beautiful for any situation. Each 25c; large plants 60c.



BIGNONIA RADICANS

BITTER SWEET

Large leaves, yellow flowers, orange capsuled scarlet fruit. One of the most popular of native plants, as its beautiful seed pods are prized for winter decoration. Each, large 50c.

CHINESE KUDZU VINE

Jack-and-the-Bean - Stalk Vine.—The phenomenal growth of this vine can hardly be imagined—sometimes 12 inches a day. Large leaves of bright green affords a dense shade. Valuable, rapidly covers arbors, fences, trees, rockeries, etc. Grows 50 to 75 feet when well established. Each 25c, large size 50c.

CHINESE MATRIMONY VINE

LYCUM.—Very vigorous growing shrubby climber perfectly hardy. Every new shoot becomes filled with small purple flowers, followed by brilliant scarlet berries. Although flowers are not showy, the long stems droop gracefully. Each, large 35c.

HARDY CLEMATIS

A most popular climbing plant. Is hardy, standing our most severe winters with but slight protection; grows rapidly and blooms freely during the entire season.

JACKMANII.—The most magnificent and showy vine in existence; of strong, healthy growth, perfectly hardy and sure to succeed anywhere. Flowers four to six inches in diameter, of a rich, deep velvety purple, distinctly veined. It is especially adapted to open lawns or house fronts in the city or country. Strong plants, each \$1.00.

HENRYII.—This may be briefly described as a white-flowered Jackmanii. It is the finest of all white sorts; same size as Jackmanii. Each \$1.00.

MAD. EDOUARD ANDRE.—An entirely distinct and beautiful new variety, being the nearest approach to a bright red. Has the same vigorous growth, hardness and freedom of bloom as the above; color is carmine red. Each \$1.00.

PANICULATA.—This small-flowered variety of Clematis is one of our most beautiful, hardy, fall-blooming vines. The flowers, which are pure snow-white, are produced in immense clusters, fairly covering the plant with a mass of fleecy-white; deliciously fragrant. Of extreme rapidity of growth. Each 25c, large, extra strong plants 50c.

COCINEA.—A charming variety. Flowers are bell-shaped, brilliant coral red color. A rapid grower and free bloomer, flowering from June until frost. Perennial, about 12 feet high. Each 35c.

VIRGIN'S BOWER.—(Clematis Flammula).—An old-fashioned popular climber, growing to a height of 20 feet, and covered with fragrant flowers. The vine is perfectly hardy, rapid growing, graceful, and will succeed anywhere. Each 25c; large plants 50c.

CLEMATIS COLLECTION.—A great bargain. A large plant of each of above kinds of Clematis for only \$3.75, postpaid.

HONEYSUCKLE

RED CORAL.—A shrubby climber and one of the most satisfactory of all plants. Has been a favorite for many years. The odd-shaped foliage is showy and attractive and it produces its bright red, fragrant, trumpet-shaped flowers almost continuously. Nice for a hedge or for training over a residence. Large plants 50c.

HALLIANA.—(Hall's Japan).—The Halliana is considered by many the sweetest and most beautiful of all. Blooms constantly and profusely from June to November. Flowers pure white, changing to yellow, and of peculiarly delicious fragrance. Each 20c, doz. \$2.00. Large two-year-old plant 35c, dozen \$3.50.

GOLDEN LEAVED.—Slender, moderate grower; leaves are beautifully veined and netted with bright yellow; flowers yellow and sweet-scented; fine for pillars and trellises. Each 20c, large 35c.

HONEYSUCKLE COLLECTION.—One each of the three varieties above, offering distinct types, large plants \$1.00, postpaid.



CLEMATIS JACKMANII

CLEMATIS HENRYII

CLEMATIS PANICULATA

HOP VINE

A vigorous, hardy, ornamental vine, for covering old trees, out-buildings, fences, etc. Produces the hops of commerce. Grows 50 feet high in a single season, is both ornamental and useful. Each 20c, 3 for 50c, dozen \$1.50.

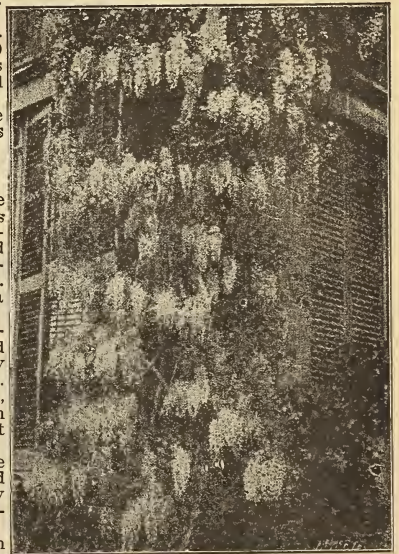
WOODBINE

VIRGINIA CREEPER.—A strong, rapid grower; foliage large, dark green; in autumn bronze and crimson. This is an old favorite and quite common in most localities. Valuable for covering back porches, out-buildings, arbors, etc. Each 20c, doz. \$2.00. Large size 35c, doz. \$3.50.

WISTARIA

BLUE CHINESE.—A very rapid grower and one of the most beautiful of all climbers. It is perfectly hardy, climbing to a height of fifty feet; when covered with bloom it is magnificent. Each 25c, large 50c.

WHITE.—Similar to above; flowers white. Each 25c; large 75c.



WISTARIA

LARGE-FLOWERED CLEMATIS AND CLIMBING ROSES IN PINK OR RED ARE A FINE COMBINATION FOR PORCH ADORNMENT.

HARDY PERENNIAL PLANTS

Our customers are learning that these require less care and more satisfactory with ordinary culture than most other classes of plants. When once set out they bloom year after year, the flowers really becoming better as the plants grow older. These are all hardy, the tops dying down every winter, but coming up again in the spring. We prepay the postage.

ACHILLEA

THE PEARL.—Finest of all plants for cemetery planting. The flowers are good sized, forming a beautiful plant 18 inches high, completely covered with pure white flowers from July until frost. We recommend this for general planting. Each 15c, dozen \$1.50.

MILLIFOLIUM ROSEUM.—Finely cut, deep green foliage. Bears a mass of bright pink flowers or umbels. Each 15c, dozen \$1.50.

PERENNIAL ASTER

Very showy, strong growing and free flowering, presenting a mass of small, bright flowers in large clusters during late summer and autumn. Many shades of color. Each 15c, dozen \$1.50.

BABY'S BREATH

(Gypsophila Paniculata.)—When in bloom it forms a symmetrical mass 2 to 3 feet high, of minute white flowers, giving it a beautiful mist-like appearance. For cutting it is exquisite. Each 20c, doz. \$2.00.

DOUBLE BUTTERCUP

A dainty novelty. The flower is from one-half to three-fourths inch in diameter, perfectly double and of a peculiarly shining bright yellow color, as if varnished; produced in great profusion. Each 15c, dozen \$1.50.

COLUMBINE

(Aquilegia.)—Columbines are always beautiful and attractive, reminding one of the woods. Many handsome colors. Each 15c, dozen \$1.50. Large 25c.

DELPHINIUM

FORMOSUM.—(Hardy Larkspur.)—Its long spikes of bright blue flowers are produced from June till frost. Handsome in clumps. Each 15c, dozen \$1.50.

IBERIS

SEMPERVIRENS.—(Perennial Candytuft.)—A dwarf plant producing clusters of flowers. A fine perennial for mass bedding. A mat of bloom in spring. Very desirable for borders of permanent beds or along walks and drives. Each 15c, doz. \$1.50.

MEHAN'S MARVEL MALLOW

Magnificent hardy Mallow; in size, profusion of bloom, and rich coloring among the most beautiful and striking perennials. Blossoms 8 to 10 inches across. Colors from fiery crimson to pure white. All shades of pinks and reds, rich in coloring. Ea. 30c, doz. \$3.00.

CANTERBURY BELLS

We can furnish mixed colors. Wonderfully fine perennials, which will often reach 3 feet in height. Mixed colors, including blue, rose or white. Each 15c, dozen \$1.50.



PEARL ACHILLEA

DAY LILY

The day lilies are much liked for shaded situations as they thrive better than most perennials under this condition.

BLUE.—Lovely blue flowers, borne on tall spikes. Each 20c, dozen \$2.00.

VARIEGATED.—Beautifully mottled dark green and pure white leaves, lilac flowers. Each 25c, dozen \$2.50.

DICENTRA (Bleeding Heart)

SPECTABILIS.—The old Bleeding Heart as lovely as ever. In early spring it bears its long chain of pendulous bloom of exquisite beauty. One of the most satisfactory of permanent plants, and a general favorite. To secure satisfactory results, keep soil loose and rich. Each 65c.

FOXGLOVE

(Digitalis.)—These are most satisfactory summer flowering hardy perennials, succeeding under almost all conditions, and with but trifling attention will give wealth of flowers during June and July. They are used extensively with good effect in shrubberies and in other shady situations. Each 15c, dozen \$1.50.

GAILARDIA

GRANDIFLORA.—Flower in June and continue one mass of bloom the entire season. Thrive in almost any position or soil. Perfectly hardy. Flowers large, from 2½ to 3½ inches in diameter, produced on long stems. Center is dark reddish brown. Petals scarlet, crimson orange and vermilion. Each 15c, doz. \$1.50.



GAILARDIA GRANDIFLOA



COLUMBINE

HIBISCUS

CRIMSON EYE.—Is a robust grower, with red stems and green foliage. Flowers are immense in size, often measuring 20 inches in circumference. The color is purest white, with a large spot of deep velvety crimson in center. Will succeed anywhere; is perfectly hardy. Each 25c, dozen \$2.50.

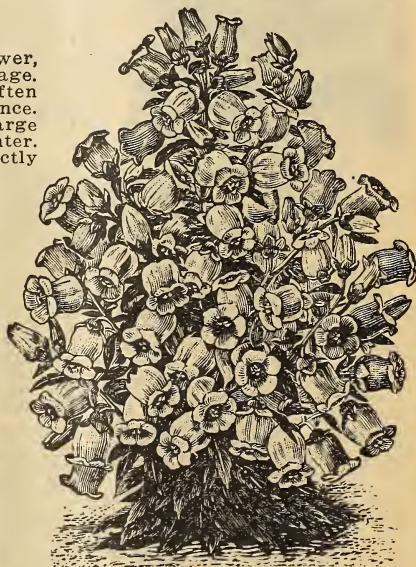
MOSCHEUTUS.—Is also called Swamp Rose Mallow. A splendid pink Hibiscus, with eye of darker shade, free flowering. Each 25c, dozen \$2.50.

HELIANTHUS

MULTIFLORUS PLENUS.—A perennial double flowered sunflower which has blooms from 2 to 4 in. across, double as any dahlia, and cover the plant. Color is a bright golden yellow. Give it a sunny position and rich soil. Each 20c, dozen \$2.00.

HOLLYHOCK

These old favorites are again becoming popular. Both showy and desirable for massing and backgrounds. Mixed colors, including black, white, pink, yellow and red. Each 15c, dozen \$1.50. Large 25c, dozen \$2.50.



CANTERBURY BELLS

OUR HARDY PLANTS ARE ALL ACCLIMATED IN IOWA AND WILL GIVE BEST OF SATISFACTION TO NORTHERN PLANTERS.

FRENCH IRIS

The true "Fleur-de-Lis," the national flower of France. Perfectly hardy, thrive anywhere, grow and bloom luxuriantly. Unless otherwise noted, price any variety, 15c each, dozen \$1.50. By express, 100 for \$10.00.

CELESTE.—Large, open flower of pure celestial blue, changing to porcelain blue as it ages.

FLAVESCENS.—Standard cream white, falls primrose veined bronze. Tall growing and late blooming.

FLORENTINA.—Rich indigo blue throughout. Flowers large, first in bloom and quite lasting.

FLORENTINA ALBA.—The best white iris. A lovely shade of color. Very early, fine. Plant for contrast.

GYPSY QUEEN.—Standards a rich cream yellow. Falls deep purple, shaded bronze. Medium height. A free bloomer.

HONORABLE.—Standards bright yellow, falls chestnut brown veined white. Free bloomer.

LA TENDRE.—Standards lavender, falls light blue, thickly veined violet. Pleasing, clean, bright color.

MADAME CHEREAU.—Is pearly white, edged with a broad margin of violet. Flowers are crumpled.

PRESIDENT THIERS.—Standard mauve, penciled brown at base. Falls purple, striped brown and white. Tall and vigorous.

SAN SOUL.—Unique color combination, violet and yellow, finished apricot. Blooms freely.

SHAKESPEARE.—Standards of light yellow, veined seal brown, falls deep, carmine violet. A beauty.

PRINCESS VICTORIA LOUISE.—Standards sulphur yellow; falls rich plum, bordered cream.

SUCCESSION IRIS BED

One plant each of 12 named sorts of French Iris, giving a contrast of color, postpaid for only \$1.50.

JAPANESE IRIS

Among the most beautiful summer flowering plants. They send up to a height of 3 feet a dozen flowering spikes, each bearing two to four blossoms 8 or 10 inches across, and of most beautiful markings and color combinations—white, indigo, purple, bluish, yellow, etc. Easily grown as a potato, in any good soil. Give full exposure to sun. Bloom freely in June and July. Mixed colors, each 25c, dozen \$2.50.

SUPERB PAEONIES

The Paeony is truly a most noble flower and rivals the rose in brilliancy of color and perfection of bloom, while greatly surpassing it in size and stately grandeur. One writer has well said that the "Paeony fully equals the rose except in poetry, perfume, thorns, bugs and disease." They are of the easiest culture, most vigorous habit, and free from disease and insects. The foliage is rich, glossy and ornamental, even when plants are not in bloom. Many of the newer varieties are quite fragrant and no other flower is so well adapted for large and showy bouquets. Plant the paeonies this year, plant lots of them in rows, beds or as specimen plants on the lawn. They make a grand show. Set out as early in spring as possible. Set the crowns one inch below surface of soil. We pay postage.

MIXED PAEONIES.—Unnamed, 35c; 3 for \$1.00.

FIVE FAVORITES PAEONY COLLECTION

REMARKABLY FINE FOR A PERMANENT BED

Free bloomers, flowers of larger size, and contrast in colors will afford the greatest opportunity for mixed bouquets of these wondrous blossoms.

Festiva Maxima.—White, blotch of red in center.

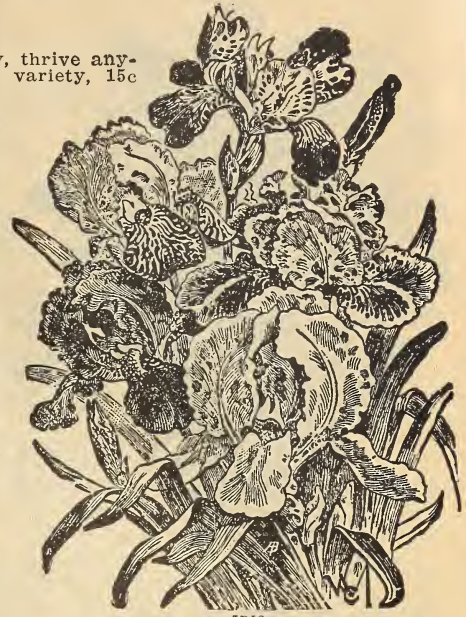
Queen Victoria.—Like above but somewhat smaller.

Ruth.—Deep rose pink; very fine.

Fragrans.—Bright pink, lighter than above.

Rubra Triumphans.—Deep blood red.

5 Favorite Paeonies, \$2.25, Postpaid



IRIS

WHITE PAEONIES

FESTIVA MAXIMA.—By far the finest double white paeony grown. The flower is of immense size, perfectly globular. Appears extremely double. Color purest snow white with carmine marks in center. Each 60c, doz. \$6.00.

COURONNE D'OR.—Peculiar in form, as the blooms are rather flat, but in the center is a touch of white, with a few crimson splashes like Festiva Maxima. Medium height, rather later than other white sorts. Vigorous. Each 75c.

QUEEN VICTORIA.—Very double and compact; color flesh white, white center, petals lightly spotted with red. A half dozen make a magnificent bed. Each 50c, doz. \$5.00.

GOLDEN HARVEST.—Nearest approach to a yellow paeony. Outer petals light blush, light yellow center. Prolific, bearing flowers in clusters of three. Ea. 60c, doz. \$6.00.

MARIE LEMOINE.—A rare and magnificent variety; flowers are enormous, opening a light blush pink, changing to white. Very late bloomer. Scarce. Ea. 75c, doz. \$7.50.

PINK AND ROSE PAEONIES

EDULIS SUPERBA.—This is a very large, full flower of light pink. Popular because of its strong growth and immense clumps. Each 60c, dozen \$6.00.

VICTORIA. TRICOLOR.—Is a very large, full flower; outer petals pale rose, inner petals white and center bright rose, thus showing three shades of color, from which it takes its name. Each 50c, dozen \$5.00.

FRAGRANS.—Very double flower, bright rose. Blooms late in the season. Strong, robust grower. Each 60c, doz. \$6.00.

DUCHESS D'ORLEANS.—Medium large compact flower. Guards are deep pink, center shaded salmon, with silvery reflex. Fragrant. Extra strong. Each 60c, dozen \$6.00.

FLORAL TREASURE.—One of the finest in the entire list. Flowers extra large and very double; exceedingly prolific; color soft, delicate blush pink. Ea. 60c, doz. \$5.00.

RUTH.—Color of the American Beauty Rose. An especially choice sort. Foliage rich, glossy green, ornamental even when the flowers are not in bloom. Flower is of large size, perfectly double. Each 50c.

BRIGHT AND DARK RED PAEONIES

FELIX CROUSSE.—Flower of bright red color, differing from most sorts in solid flower having practically no division of outer petals and center. Very double, late flowering. Each 75c, dozen \$7.00.

GRANDIFLORA RUBRA.—Has extra large balls of blood red, magnificent flowers. Probably the largest red variety in existence. Give it rich soil. Each 75c, dozen \$7.50.

RUBRA TRIUMPHANS.—An early blooming and very sweet-scented flower of rich, brilliant, glowing, satiny crimson color. Each 60c, dozen \$6.00.

PRINCE IMPERIAL.—Deep purplish crimson, shining and satiny. Flower very double; rich and striking; early. Splendid sort for contrast. Each 60c, dozen \$6.00.

TRICOLOR PAEONY BARGAIN

One white, one pink, and one red, our choice of varieties, but good plants and will produce good flowers. A real bargain. **THREE DIFFERENT COLORS, POSTPAID, \$1.25.**

NO HARDY PLANT BETTER FOR PERMANENT BEDS THAN IRIS. THEY INCREASE IN NUMBERS AND BEAUTY EACH YEAR.

GARDEN PINKS

Dwarf hardy garden pinks that will grow anywhere and increase in beauty every year. A universal favorite because of its delightful clove-like fragrance.

LAURA WILMER.—A choice variegated sort of great beauty. Each 20c, doz. \$2.00.

ABBOTSFORD.—Deep carmine, marbled with white; has clove fragrance. Each 15c, dozen \$1.50.

HER MAJESTY.—Grand variety; plants grow to an immense size, spreading and producing great numbers of pure white double flowers. Each 15, dozen \$1.50.

HOMER.—Flower contains a dark center in bright red ground color. Each 15c, dozen \$1.50.

MIXED VARIETIES.—Desirable for large beds or borders. Dozen for \$1.25, 100 for \$8.00.

LINUM

PERENNIAL FLAX.—Desirable plant for the border or rockery, growing 2 ft. high, with light, graceful foliage and large blue flowers all summer. Each 15c, dozen \$1.50.

POPPY

The perennial poppies surprise and delight flower lovers with the wondrous size and beauty of the blossoms. Are very hardy and increase in beauty each year.

ICELAND.—Has fern-like foliage; bears an immense number of elegant flowers. Each 15c, dozen \$1.50.

ORIENTAL.—Mammoth flowers of gorgeous colors. Each 15c, dozen \$1.50.

HARDY PHLOX

No hardy perennials are more showy or effective than a fine collection of hardy phloxes, and the new and improved varieties will add much to their popularity. Flowers are very large and have brilliant shades of color. Many choice varieties and colors mixed. Each 25c, dozen \$2.50.

CREEPING PHLOX

(Phlox Sublata.)—The Creeping Phlox has a charming beauty. Absolutely hardy without protection. When in bloom, during April and May, their multitude of lovely white flowers cover everything beneath as completely as carpets cover the floor. Bloom again in September, but not so freely. They do well on good soil, but are also desirable for covering rocky hillsides, sandy slopes, bare ground too poor to grow anything else, and for edging borders of hardy plants or shrubbery are not surpassed. Light blue. Each 15c, dozen \$1.50, 100 for \$10.00.

SEA PINK

ARMERIA, OR THRIFT.—Foliage narrow and grass-like; bears compact heads of flowers of handsome pink. Entirely hardy. Each 15c, dozen \$1.50.

MISCELLANEOUS PERENNIALS

Condensed for want of room.	Each
Arabis Alpina , (Rock Cress) white flower	\$.15
Anchusa Italica , 3 to 5 feet high, blue flower	.25
Coreopsis , (Perennial Calliopsis) yellow flower	.25
Dianthus Latifolius , (Scarlet Hybrid Sweet William)	.15
Eryngium , (Sea Holly) blue flowers	.20
Eupatorium Ageratoides , white flowers	.20
Lychnis, Viscaria , (Ragged Robin)	.15
Lychnis, Chalcedonica , Jerusalem Cross	.15
Lychnis, Haageana , orange scarlet flower	.15
Physostegia, Alba , (False Dragon Head) white	.15
Physostegia, Rosea , same as above, pink flower	.15
Pyrethrum, Hybrida Grandiflora	.20
Pyrethrum, double	.30
Stokesia , (Cornflower Aster) lavender or white	.15
Sweet William , pink flower	.15
Sweet William , scarlet flower	.15
Tradescantia , (Spider Wort)	.20

SHASTA DAISY

RUDBECKIA

RUDBECKIA

GOLDEN GLOW.—A glorious, well known and very popular hardy plant that should find a place in every garden. It is of extra fine habit; vigorous growth, with early, continuous and immense blooming qualities. The stems are long and gracefully poised. Attains a height of 6 to 8 ft., and a small plant set out in spring will produce hundreds of blossoms during August and September, each as large as a good sized chrysanthemum. It is of easiest culture. Nice for screen row. Price 20c, dozen \$2.00.

SWEET WILLIAM

Well known, free blooming, hardy perennial plants which produce masses of lovely, brilliant, sweet-scented flowers through a long period, making a splendid effect in beds. One foot high. Flowers are borne on heads or umbels. Color white, pink, crimson, purple, etc., with rich markings. Each 15c, dozen \$1.50.

YUCCA

FILAMENTOSA.—(Adam's Needle.)—Tropical looking plant with long, narrow leaves, remains green entire year. Grows in clumps and throws up flower stalks from 3 to 4 ft. high, from which hang 100 to 300 creamy white, bell-shaped flowers. It blooms a long time. Each 25c, dozen \$2.50. Strong two-year-old plants 50c.

YUCCA FILAMENTOSA.



BLUE SPIREA

BLUE SPIREA

(Caryopteris.)—This is a handsome shrubby plant for pots or open ground. Bloom from mid-summer until heavy frost. Each 20c, doz. \$2.00.

PLATYCODON

(Wahlenbergia.)—A bushy, herbaceous plant 2 to 3 ft., with handsome deep green foliage and bearing grand clusters of beautiful white, lavender and blue, large, bell-shaped flowers; blooms very profusely and continuously. Ea. 25c.

SHASTA DAISY

It can be grown out of doors by anybody where it is not cold enough to kill oak trees. It is perennial and blooms better and more abundantly each season. The flowers are extremely large and graceful, averaging about 4 inches in diameter, with three or more rows of petals of the purest glistering whiteness, and are borne on single, stiff, wiry stems, nearly 2 feet long. Effective in corners and as foreground of screens; are very popular for planting in clumps and masses among shrubbery or in the permanent garden. Strong plants 15c each; dozen \$1.50; large 25c.



Shrubs are permanent improvements which increase in size, value and beauty year after year.

ALTHEA (Rose of Sharon)

DOUBLE WHITE.—Beautiful shrubs. Of neat shape, nice foliage and valuable for hedge plants, are loaded with large, double, white flowers during fall. Each 35c.

DOUBLE RED.—Similar to above but flowers are bright red color. Each 35c.

DOUBLE PURPLE.—Like above, except color is beautiful purple. Each 35c.

DOUBLE BICOLOR.—White, blotched pink. Very beautiful. Each 35c.

BARBERRY

THUNBERGII.—A very pretty variety from Japan; dwarf, graceful habit; foliage is small, changing to beautiful bright red early in fall; showy. Large plants 60c. By express, dozen \$5.00.

CALYCANTHUS

Generally known as "Sweet Shrub." Flowers purplish brown, quite double, exquisitely fragrant. Each, large 40c.



SPIREA VAN HOUTTEI (Bridal Wreath)

PRIVET

CALIFORNIA.—A most vigorous grower of compact and regular form; foliage is a beautiful shade of glossy, wax-like green which it retains well into the winter, being almost an evergreen. For hedges plant 8 to 10 inches apart. Strong plants per dozen, \$1.50; prepaid. By express per 100 \$8.00; 500 for \$35.00.

ARMURENSE.—Makes a splendid formal hedge. The plant has glossy leaves and almost an evergreen. Stands the severest winters. Hardest of all privets. South of Iowa line the California variety is generally more popular. Each 25c, dozen \$2.50, prepaid. By express, 100 for \$16.00.

SPIREA

BILLARDI.—A strong growing variety; pink flowers. Each 50c.

ANTHONY WATERER.—Grows 18 to 36 inches high, and is covered from spring until fall with large heads of crimson flowers. Fine for borders. Each 50c, dozen \$5.00.

VAN HOUTTEI.—(Bridal Wreath.)—Fine compact clumps with pure white flowers borne in masses drooping gracefully. Large, each 30c, dozen \$3.00. 100 by express, not prepaid, \$20.00.

THUNBERGII.—Slender, gracefully drooping branches. Has single white flower. Blooms early. Large plants each 50c.

SYMPHORICARPUS

RACEMOSUS.—(Snowberry.)—Small pink flowers, followed by large white berries, remaining most of winter. Ea. 25c, doz. \$2.50.

VULGARIS.—(Coral Berry.)—Nice hedge plant, naturally very graceful. 2 to 3 ft. high. Ea. 20c, doz. \$2.00. By exp., 100 \$15.00.

WEIGELIA

ROSEA.—Of robust but graceful growth, 5 to 6 ft. high; it produces immense numbers of superb large trumpet-shaped flowers in June and July, also some in the fall. The plants frequently have more flowers than leaves. Large plants 40c, dozen \$4.00.

EVA RATHKA.—A splendid new variety. Has large purplish red flowers with rich, creamy white markings. Large plants 60c.

VARIEGATED.—A neat, dwarf shrub; variegation of green, yellow and pink in its leaves; flowers delicate pink. Large 75c.

HARDY SHRUBS

CORNUS

SIBERICA.—(White Flowering Dogwood.)—Large white flowers in spring; crimson foliage in autumn. Each 35c.

STOLONIFERA.—(Red Twigged Dogwood.)—Branches turn blood-red in winter. Each 35c.

DEUTZIA

PRIDE OF ROCHESTER.—Shrub of strong, hardy growth, luxuriant foliage and bearing an abundance of beautiful, double white flowers. Each 40c.

GRACILIS.—Flowers are double, pure white. Each 35c.

FLOWERING ALMOND

DOUBLE PINK.—One of the earliest and finest of shrubs. Loaded with double pink flowers. Large size 60c.

DOUBLE WHITE.—Like above, with snowy white flowers. Large size 60c.

Prices are prepaid except if quoted "by express" customers are to pay the transportation.

DWARF HONEYSUCKLE

RED TARTARIAN.—Blooms in June with beautiful pink and white flowers, followed by red berries. Each 30c.

FORSYTHIA

SUSPENS.—(Golden Bell.)—Weeping or pendulous habit; has deep green leaves and bright yellow flowers. It blooms early. Each 30c.

FORTUNIS.—A more upright growing variety; yellow. Each 30c.

VIRDISSIMA.—Blooms among the first shrubs. Flowers yellow, drooping and borne in great numbers. Originally from China. Each 30c.

SYRINGA

GRANDIFLORA.—One of the strongest growing varieties, with lovely, large, very fragrant flowers. Ea. 40c.

LE MOINEI.—A charmingly fragrant variety. Flowers are yellowish white. Each 40c.

HYDRANGEA

NEW SNOWBALL.—(Arborescens Grandiflora Alba)—Flowers much more profuse than Paniculata and though the blooms are not so large they are pure white and more like the snowball. Blooms in July and August. Each, large 60c, postpaid. By express, per doz. \$6.00, per 100 \$50.00.

PANICULATA GRANDIFLORA HYDRANGEA.—The most popular of all shrubs. Unsurpassed for the lawn, a hedge, or cemetery planting. Attains a height of 5 to 7 feet; is hardy in all localities and in July and for two or three months the flowers are massive, cone shaped, sometimes 10 inches in length, changing from white to pink and finally to a beautiful, rich, coppery red. See front cover illustration. Large plants each 50c. By express, dozen \$5.00, 100 for \$40.00.

LILAC

PERSIAN.—Strong growing shrub, bearing large fragrant clusters of purple flowers very early in spring. Large plants 75c.

FIERY PLUME.—A novelty in lilacs. The brightest and nearest red flower of all lilacs. Showy and desirable. Large plants 75c.

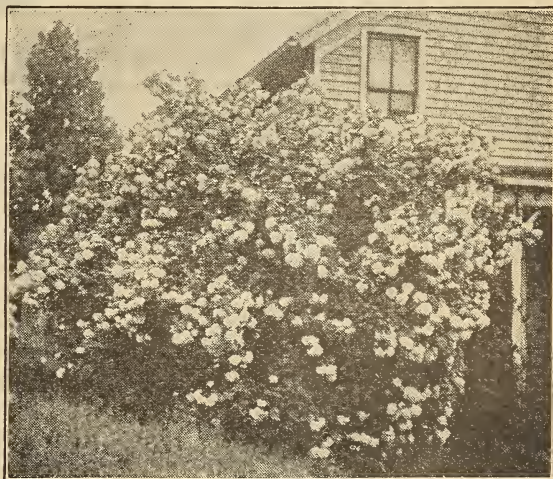
NEW DOUBLE WHITE.—A recent novelty of great merit. The truss is of large size and produced in profusion. The individual flowers resemble miniature tuberoses. Large plants 75c.

COMMON.—The old standard variety with bluish purple flowers. Large plants 50c.

SINGLE WHITE.—Like the above, but has white flowers. Large plants 60c.

TAMARIX

Foliage is light, feathery and graceful, sage blue in color and very striking. Pink blooms through summer. Each 40c.



SNOWBALL

SNOWBALL

COMMON.—Well known and popular shrub covered with dense white flowers which gives it its name. Large plants, each 50c.

JAPAN.—Valuable improvement on the common Snowball; flowers are smaller and more numerous; often as many as twenty on a stem 18 inches high. Large plants, each 75c.

IF YOU WANT A QUANTITY OF SHRUBS FOR LANDSCAPE WORK WRITE FOR PRICES GIVING THE COMPLETE LIST WANTED

Carefully packed and
are sure to please.

NURSERY STOCK

Ask for special
prices on large
orders.

Fifty or more of any sort sold at the hundred rate; purchaser to pay transportation charges by express or freight on all nursery stock unless otherwise quoted. Orders must amount to at least one dollar. These are shipped direct from the nursery and cannot be sent with other goods.

CERTIFICATE OF NURSERY INSPECTION.

Office of The State Entomologist, State of Iowa, Ames, Iowa, September 1, 1922, Number 126. This certifies that the nursery premises of Iowa Seed Company, located at Des Moines, Iowa, has been inspected as provided by the laws of Iowa (Section 2575-a5) supplement to the Code, 1913, and found apparently free from dangerous insects, pests or plant diseases. Permission is hereby granted to the owners of the above named nursery to sell and ship nursery stock which has been inspected for the year ending September 1, 1923, provided that a copy of this certificate is attached to each container. Certificate expires September 1, 1923.—CARL J. DRAKE, State Entomologist.



YELLOW TRANSPARENT APPLE

APPLES

Price \$1.00 each, \$11.00 per dozen, 100 for \$75.

Summer Varieties

DUCHESSE.—Yellow, striped red; medium to large; extremely hardy and productive.

EARLY HARVEST.—Large, golden yellow; splendid quality. Very popular in Iowa.

RED JUNE.—Choice quality, very early, bright dark red, small to medium size.

YELLOW TRANSPARENT.—Very early, light yellow, medium size; juicy, sub-acid.

Autumn Varieties

MAIDEN'S BLUSH.—Yellow with beautiful blush cheek. Good quality. Medium large.

RAMSDALL SWEET.—Large. Rather oblong shape. Dark red. Best fall sweet apple.

FAMEUSE.—(Snow Apple.)—Deep dark red, flesh very white, juicy and rich. Splendid sort.

Winter Varieties

BALDWIN.—Famous eastern market apple. Large, bright red, crisp, juicy and rich.

BANANA.—Large, golden yellow, blush cheek. Fine quality. Popular with western orchardists.

BEN DAVIS.—Large, red, striped yellow, good quality, good keeper. Profitable market sort.

DELICIOUS.—Large, brilliant red, shading to a golden yellow at blossom end. Extra quality.

GRIMES GOLDEN.—Large, golden yellow. Favorite sort because of extra choice quality.

JONATHAN.—Most popular of all. Large, deep red. Rich flavor, juicy and sweet.

NORTHWESTERN GREENING.—Large, light green. The fruit has been kept for a year.

TALMAN'S SWEET.—Medium size. Pale whitish yellow. Good quality. Standard sweet apple.

WEALTHY.—Large, red, showy, sub-acid and productive. Most popular of all.

WINESAP.—Medium. Deep red. Quality very fine. Rich, crisp flesh, sub-acid flavor. Popular.

CRAB APPLES

Price \$1.00 each, \$11.00 per dozen.

TRANSCENDENT.—Small, yellow, popular.

WHITNEY.—Large, bright red, vigorous and productive. A very popular variety.

CHERRIES

Price \$1.50 each, \$16.00 per dozen.

EARLY RICHMOND.—Medium size, dark red, juicy, acid flavor. Unsurpassed for cooking. Standard early variety in Middle West.

MONTMORENCY.—Large red acid cherry; is larger than Early Richmond and about ten days later. A superior sort for home use.

ENGLISH MORELLO.—Deep, dark red. Very acid, but fine for pies. Late.

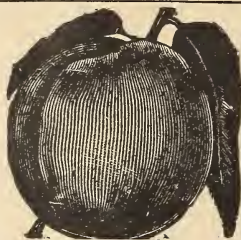
PEARS

Any of following by exp. \$1.50 each, doz. \$16.

CLAPP'S FAVORITE.—Very large, yellow and dull red with russet specks. Rich and melting. Ripens in August.

KIEFFER.—Large, rich colored and good quality. Excellent for canning; will keep until winter. Hardy. Ripens in October.

BARTLETT.—Large size, excellent quality. A leading variety. Ripens in August.



ELBERTA PEACH



KIEFFER PEAR

WEeping TREES

WISCONSIN WILLOW.—An upright grower but with drooping twigs. 6 to 8 ft., \$1.00 each.

WEEPING CUT LEAF BIRCH.—Perhaps the most elegant of all lawn trees. Delicate foliage, silvery white bark. Tall and slender but a vigorous grower. 6 to 8 ft., \$3.50 each.

TEA'S WEEPING MULBERRY.—Very distinct and beautiful. Hardy, 1-year head, each \$3.00.

ORNAMENTAL

WEIR'S CUT LEAF MAPLE.—Cut leaved, very hardy and graceful. 6 to 8 ft., \$1.50 each; \$14.00 per 10.

BECHTEL'S FLOWERING CRAB.—Medium size tree and large, very double, fragrant flowers. 3 to 4 ft., \$1.50 each.

CHESTNUT.—The American Sweet. Well known; valuable for nuts and lumber. 5 to 6 ft., \$1.50 each, \$12.00 per 10.

SCHWEDLER'S MAPLE.—Red foliage in spring, changing to green in summer and red again in the fall. Beautiful tree for parking. 6 to 8 ft., \$3.50 each; \$30.00 per 10.

MOUNTAIN ASH.—A fine hardy, small tree. Bears red berries. 6 to 8 ft., \$1.50 each.



MONTMORENCY CHERRY.

PEACHES

Each 75c, dozen \$7.50.

CROSBY.—Medium size, bright orange yellow, streaked carmine. One of the best standard sorts and claimed to be the hardiest of all. Ripens in September.

CHAMPION.—Fruit large, beautiful in appearance, excellent flavor, skin creamy white with red cheeks, extremely hardy with free stones. Ripens in late August.

ELBERTA.—The most popular early market sort. Large, bright lemon yellow, with blush cheeks. Ripens in August.

PLUMS

By express, each \$1.50, dozen \$16.00.

DeSOTO.—Bright red. Very prolific, of good quality. A standard native variety.

FOREST GARDEN.—Large, mottled red and yellow, very sweet and rich.

WEAVER.—Flesh firm, red, juicy, with flavor resembling apricot, freestone, early bearer and very productive, hardy and said to be curculio proof.

WILD GOOSE.—Large, rich and melting; delicious. Strong grower and prolific.

SHADE TREES

We shall be pleased to supply Shade or Ornamental Trees at prices given. Please remember they come direct from the nursery and cannot be shipped with any other goods except nursery stock.

ASH.—American White.—Fine, hardy trees of symmetrical, rapid growth, 6 to 8 ft., 75c each; \$6.00 per 10.

BOX ELDER.—Well known, quick-growing, hardy tree. Succeeds everywhere. 6 to 8 ft., 75c each; \$6.00 per 10.

CAROLINA POPLAR.—Takes first rank among rapid growing trees. It thrives everywhere. Resembles Cottonwood but does not bear seed. 6 to 8 ft., 60c each; \$5.00 per 10.

CATALPA SPECIOSA.—Fine, rapid grower. Valuable for timber, posts and cross-ties. Popular in semi-arid regions. 6 to 8 ft., 75c each; \$6.50 for 10.

ELM.—American White.—Is a well known, beautiful shade and park tree. 6 to 8 ft., 75c each; \$6.00 per 10.

LINDEN.—American.—Known also as Basswood or Whitewood. A fine spreading native tree with large leaves and fragrant flowers. 6 to 8 ft., \$2.00 each; \$18.00 per 10.

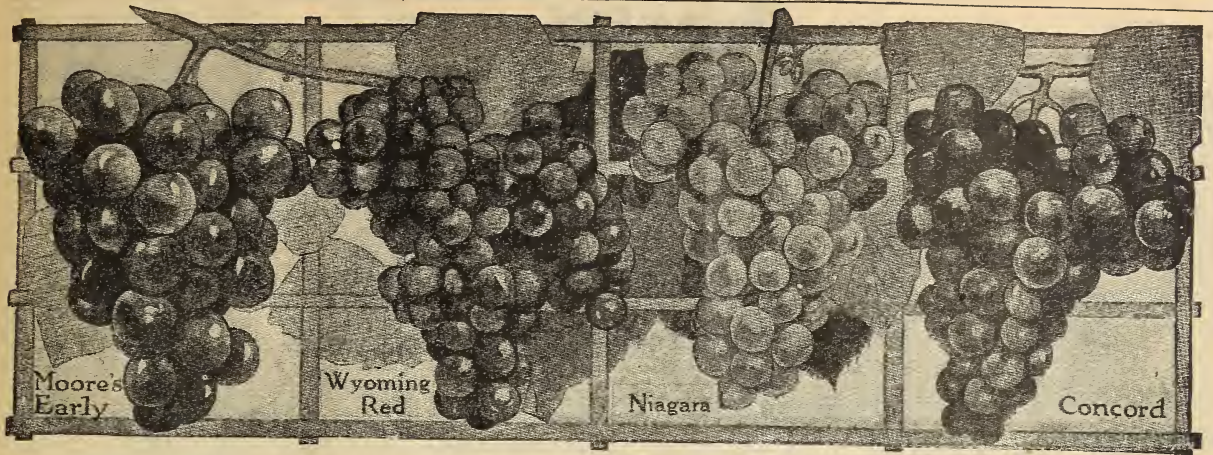
MAPLE.—Soft or Silver.—Valuable for producing quick shade. 6 to 8 ft., 75c each; \$6.50 per 10.

MAPLE.—Hard or Sugar.—Is a slow grower, very hardy, valuable and beautiful. 6 to 8 ft., \$2.00 each; \$18.00 per 10.

NORWAY MAPLE.—Hard wood, fine foliage, with beautiful spreading top. 6 to 8 ft., \$2.50 each, \$20.00 per 10.

SYCAMORE.—American.—A lofty, spreading tree with handsome broad leaves. 6 to 8 ft., \$1.50 each; \$12.50 per 10.

BE SURE TO SUBMIT YOUR LIST FOR PRICES IF YOU WANT A QUANTITY OF OUR HIGH GRADE NURSERY STOCK.



GRAPES

Our grape vines are No. 1 one-year vines which experience has shown to be the best size for transplanting. The most robust vines are marketed by nurserymen generally at one year old; the culls grown another season and sold as two-year-olds. Write for prices in large lots.

AGAWAM.—Berries are very large and bright red, with thick skin; very vigorous grower. The fruit is of good quality. Each 30c, dozen \$3.00.

BRIGHTON.—Of best quality. Bunch and berry large, of bright red color and it is quite productive. Each 35c, dozen \$3.50.

CAMPBELL'S EARLY.—Strong grower, large, with healthy foliage. Very productive; keeping and shipping qualities unequaled by any early grape. Ripens with Moore's Early. Bunch and berry large, glossy black with blue bloom. Sweet and juicy; clusters usually shoulder. Each 35c, dozen \$3.50.

CONCORD.—Well known standard black sort. Succeeds everywhere. Each 20c, dozen \$2.00, 100 for \$15.00.

MOORE'S EARLY.—Bunch large, berry very large and round, vines are exceedingly hardy. Desirable early market black variety; popular. Each 25c, dozen \$2.50.

NIAGARA.—A leading white sort; very productive and hardy. Bunch is white, changing to pale yellow when fully ripe; skin is thin and tough. Quality extra fine. Each 30c, doz. \$3.00.

WYOMING RED.—Claimed to be as choice in quality as the Delaware. Fruit is larger and brighter red than that sort. Each 30c, dozen \$3.00.

WORDEN.—A large grape of the Concord type, much earlier, larger and of better quality; hardy, productive. Each 25c, dozen \$2.50, 100 for \$20.00.

Home Vineyard Collection

8 Strong Grape Vines, Postpaid \$1.60.
4 Concord, black; 2 Niagara, white;
2 Agawam, red.

Just enough for the ordinary family needs and a variety sufficient to satisfy different tastes.

CURRENTS

Cannot ship to any states west of Minnesota, Iowa, Missouri, Arkansas and Louisiana.

POMONA.—Most productive and vigorous. Ripen early but remain on the bush longer than any other; fine quality. Each 25c, dozen \$2.75.

FAY'S PROLIFIC.—One of the most prolific, of excellent quality. Each 25c, dozen \$2.75.

WHITE GRAPE.—Standard. Fruits are light colored, mild and fine flavor. Each 25c, dozen \$2.75.

STRAWBERRIES

Quick service and special packing is necessary in handling strawberry plants. For these reasons we ship strawberry plants by themselves. Perfect flowered sorts are marked (s); imperfect marked (p), must have perfect flowered planted with them.

PRICES OF STRAWBERRIES

Per dozen 30c, 100 \$1.25, postpaid.
By express, 300 for \$3.00, 1,000 for \$8.00.

AROMA (s).—The best and most profitable late berry. It is very prolific and of most excellent color and quality. Plants strong, vigorous and free from disease. Fruits very large, roundish conical, glossy and bright.

BEDERWOOD (s).—One of the best varieties for planting with Warfield or Crescent. Produces a large amount of pollen. Fruit is of excellent color and a good shipper. Ripens early.

BRANDYWINE (s).—Large berry, vigorous, strong grower, and a large, heavy plant. Fine for market; large, firm and handsome red color. Blooms perfect, a good fertilizer for other sort.

SENATOR DUNLAP (s).—Medium sized sort; is very hardy, productive, a vigorous grower. Bears until quite late. Unsurpassed in quality; claimed best all around variety.

WARFIELD (p).—One of the best known market berries, medium size, excellent quality, and a good shipper. One of the best early and maintains its size well throughout the season.

Famous Strawberry Bargain

25 each Senator Dunlap, Bederwood, Warfield and Aroma

Four varieties, furnishing both male and female blossoms suitable to grow together and give a succession of fruit all season. 100 plants in all (just enough for a home bed), well rooted, vigorous and young; plants that have never fruited. Postpaid for \$1.25.

EVERBEARING STRAWBERRIES.—Progressive and Superb varieties.—Per dozen 50c, 100 for \$2.50, postpaid. By express, 300 for \$6.00, 1,000 for \$17.50.

GOOSEBERRIES

Cannot ship to any state west of Minnesota, Iowa, Missouri, Arkansas and Louisiana.

CHAMPION.—A new variety from Minnesota. Hardy, free from mildew, very productive, large size and recommended as the best. Each 25c, dozen \$2.50.

JOSELYN.—Of superior merit. Is very large, hardy, productive and free from mildew. Each 30c, dozen \$3.00.

PEARL.—Most prolific; hardy, entirely free of mildew. Superior size and yield. Each 25c, dozen \$2.50.

HOUGHTON.—Pale red, good quality, productive. Each 20c, dozen \$2.00.

RASPBERRIES

COLUMBIAN.—This is a leading purple-red variety. Fruit is rich and sprightly in flavor, and is superior for canning, jam or preserving. Grows very large, strong and vigorous and yields immensely. Doz. \$1.25, 100 \$8.00.

ST. REGIS.—Everbearing red variety. Spring set plants bear the first year, continuing to fruit until late in fall, late crop coming on the tips of new canes. Hardy. Doz. \$1.25, 100 for \$8.00.

NEW CARDINAL.—Surprises all by its great growth, extreme hardness, great productiveness and the unusual richness of its flavor, large purple berries. Dozen \$1.25, 100 for \$8.00.

KANSAS.—Ripens about one week earlier than Gregg. Fruit large and firm. Valuable as a home or market variety. Dozen 75c, 100 for \$5.00.

GREGG.—Hardy and excellent. Has been leading blackcap sort for many years. Dozen 75c, 100 for \$5.00.

CUMBERLAND.—One of the best of blackcap variety. It is of very large size, good quality; firm and handsome and an excellent shipper. Plants vigorous and hardy, productive and free from disease. Doz. 85c, 100 for \$6.00.

BLACKBERRIES

SNYDER.—Standard sort. No other so prolific or so desirable for shipping. Doz. \$1.00, 100 for \$7.00.

ANCIENT BRITON.—Regarded as one of the hardest and especially adapted to the north. Dozen 75c, 100 for \$6.00.

BLOWERS.—A sturdy grower and quite hardy. The fruits are large, melting and of splendid quality. Dozen \$1.00, 100 for \$7.00.

DEWBERRIES

LUCRETIA.—The best dewberry for this section. Berries much larger and better quality than blackberries. Doz. \$1.00, 100 for \$6.00.



WARFIELD

A GOOD SUPPLY OF DIFFERENT KINDS OF SMALL FRUITS IN THE FAMILY GARDEN ADDS GREATLY TO THE JOY OF LIVING.

SPRAYERS

Each year proves the importance of spraying fruit trees and plants in order to destroy the insects and secure a good crop. The most successful fruit growers are the most enthusiastic on spraying. It will pay you to invest in spraying apparatus if you have only one fruit tree. The spraying of apple and plum trees is especially recommended. A circular giving full information mailed free on request. All spray pumps are sent by freight or express, not prepaid, except where noted.

THE AUTO-SPRAY NO. 1.—Compressed Air Sprayer.—Our choice of compressed air pumps of strength and simplicity. Will not get out of repair and is kept absolutely clean without difficulty. Diameter 7 inches; height 2 feet; capacity $3\frac{1}{2}$ gals.; weight empty 7 lbs.; weight loaded 30 lbs.; weight shipping 15 lbs. Illustration shows mechanism. If additional information is wanted, send for circular of the Auto-Spray. Prices: Auto-Spray No. 1B, brass tank with "Auto-Pop," \$9.50. Auto-Spray No. 1D, galv. tank with "Auto-Pop," \$7.00. Two-foot brass extension rod, postpaid, 75c.

ACME COMPRESSED AIR SPRAYER.—Pattern shown by illustration. It is 18 inches high and $7\frac{1}{2}$ inches in diameter. Capacity is four gallons but works better if not more than $3\frac{1}{2}$ gallons is placed in it. There is no leather or wood in the pump valve to expand and contract. Has three-piece nozzle for fine or coarse spraying. Shipping weight 10 lbs. Price, galvanized \$6.00, brass \$8.00.

IMPROVED FAULTLESS, or "Misty" Sprayer.—Shaped like the standard Faultless, but the spray nozzle protrudes through the tank, making it stronger. Mailing weight 2 pounds. By express, galvanized iron 75c; tin 50c.

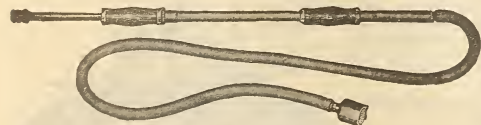
LOWELL BUCKET PUMP.—A low priced, serviceable bucket pump, made similar in pattern to the Little Giant; not quite so large. It has only one tube with plunger. Is useful for garden spraying, washing autos or windows, and for light work generally. Well constructed and will last many seasons. The best of the small brass bucket pumps. Each \$5.00. Mailing wt. 5 lbs.

THE LITTLE GIANT BUCKET SPRAY PUMP.—Constructed entirely of brass and is provided with a large air chamber and has ball valves, and the pressure is held uniformly so the nozzle throws a continuous spray. Will throw a solid stream 50 to 60 feet; fitted with hose and imperial combination and fine and coarse spray, solid stream nozzle and foot rest. Price by exp. \$4.50. 8-ft. pipe extension, by exp. 75c. Mailing wt. of pump 7 lbs.; of extension pipe 2 lbs.

LEVER BUCKET OR BARREL SPRAY PUMP.—Similar to the Little Giant but is larger, has lever handle with cog gears and can be attached to bucket or barrel. Action of plunger keeps liquid thoroughly mixed. Are of brass, will not rust. Price by exp. \$6.50; 8-in. extension pipe (for use among large trees), by exp. 75c. Mailing wt. of pump 9 lbs.; of pipe 2 lbs.

MYERS BARREL SPRAY PUMP.—A heavy brass cylinder barrel pump for use in orchards and vineyards. It clamps onto the barrel so that it is rigid. The barrel can be set in a wagon or on a drag.

It is equipped with 15 feet of hose and a graduated nozzle for either coarse or fine spray. Practically unbreakable and will last many years. Each \$14.00.



AUTO SPRAYER NO. 5

COMPLETE SPRAYING COLLECTION

COMPLETE COLLECTION, by express only, \$7.10. Insecticides only, by express, \$2.75

1 lb. Arsenate of Lead.—For spraying to destroy worms, bugs and leaf eating insects. Sufficient for 16 gallons of liquid.

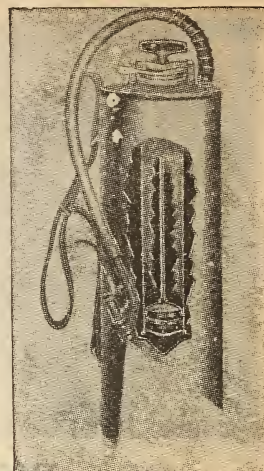
1 lb. Fungi Bordo.—For spraying to destroy mildew, black rot, blight and other diseases of trees and plants.

1 lb. Lime Sulphur.—To use for general spraying and for mixing with arsenate. Special use for winter spraying.

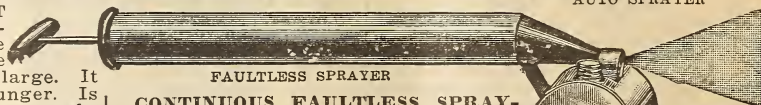
$\frac{1}{2}$ lb. Black Leaf Forty.—For use on house plants, and all out-door flowers, fruits and vegetables to destroy plant lice.

2 lbs. Wolf's Gardite.—For use on edible vegetables where arsenates or poisons are not desirable. Kills the bugs.

One Little Giant Spray Pump.—Best and most durable of small bucket pumps which can be used for any purpose.

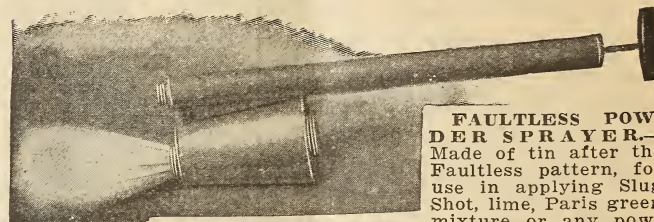


AUTO SPRAYER



FAULTLESS SPRAYER

CONTINUOUS FAULTLESS SPRAYER.—Is made like the old standard Faultless Sprayer which is the most popular of this type. Made in such a way that the action of the plunger forces a continuous fine mist spray and drawing back plunger does not stop flow as in old style sprayer. Add postage, mailing wt. 2 lbs. By exp., gal. iron \$1.25, tin \$1.00.



FAULTLESS POWDER SPRAYER

MADE OF TIN AFTER THE FAULTLESS PATTERN, for use in applying Slug Shot, lime, Paris green mixture or any powder form of insecticides. Light and easily handled. Does the work perfectly and it is the most economical method in quantity of powder applied. It is cheap and effective. If to go by mail add postage for mailing. By exp., not prepaid, 90c. Mailing weight 4 lbs.

DUSTERS.—Buckets with perforated bottom, used for applying Slug Shot or other forms of powdered insecticides. Very convenient and effective for the purpose. Each, by exp., 50c. Mailing weight 1 pound.

IDEAL WHEELBARROW SPRAYER.—A very desirable type of spraying outfit for the gardener and fruit grower. Illustration shows pattern. Tank is galvanized iron. Pump is strong and forceful. It is equipped with hose and graduated nozzle. Price of outfit as shown by illustration \$25.00. Complete machine includes an air pressure tank that is attached to frame in front of liquid tank, and which is desirable if to be used by one person only. Price complete with pressure tank \$35.00.

AUTO SPRAYER NO. 5.—A handy form of bucket pump consisting of brass pump which operates with syringe stroke. It is attached to rubber hose which has a brass strainer attached to the bucket end. You simply drop the end of the hose in bucket and with a few strokes you can spray a tree or any other article. Useful in washing automobiles, windows or porches. Price \$5.00.



IDEAL WHEELBARROW SPRAYER

ALL KINDS OF INSECTICIDES FOR FRUIT GROWERS ON THE NEXT PAGE. YOU SHOULD NOT FAIL TO USE THEM

SPRAY MATERIALS

Sherwin-Williams Insecticides,

Poisons are not mailable. All items on this page go at customer's expense unless quoted postpaid.

It is vitally important to conserve and protect fruit and vegetables from insect pests. Spraying is the best method to combat the insects and diseases and present methods of manufacture have given us insecticides in most condensed form, and in formulas ready for instant use for any purpose.

The Sherwin-Williams Co., has developed a large line of insecticides in dry powdered form thus being convenient to handle and to keep until used. There is no danger of freezing or loss through leakage, and cost of transportation is reduced to the lowest.



DRY LIME SULFUR.—The use and success of Lime-Sulfur solution is known to practically every fruit grower in the country. Sherwin-Williams Dry Lime-Sulfur is true lime-sulfur solution in dry powder form—the first and only one of its kind on the market. It has all the advantages of the liquid material, but eliminates the disadvantage. Protected by patent. Price: 1 lb. 35c, 5 lbs. \$1.50, 10 lbs. \$2.00, 25 lbs. \$5.

FUNGI BORDO.—Dry powdered Fungi-Bordo is a true Bordeaux mixture in dry powdered form, requiring only to be mixed with cold water to make a standard Bordeaux. Directions on package. Price: 1 lb. 50c, 5 lbs. \$2.25.

PESTROY.—Pestroy is a combination Bordeaux mixture and arsenate of lead to save the time and trouble of making up and combining Bordeaux solution and the arsenate of lead mixture. Price: ½ lb. 30c, 1 lb. 50c, 5 lbs. \$2.25.

HAMMOND'S SLUG SHOT.—A combination of potent insecticides and soluble plant food. It destroys all insects injurious to shrubs, trees and plants. Poisonous to insects but not to foliage. 1 lb. 25c, 5 lbs. 75c, 10 lbs. \$1.40, 100 lbs. \$13.00.

FUMIGATING AND DUSTING POWDER.—Formerly sold under the name of Tobacco Dust. By express, lb. 15c, 5 lbs. for 45c, 100 lbs. for \$6.00.

CROW BRAND INSECT POWDER.—Best grade. Fresh and nice. It does not pay to use cheap, ordinary grades. Splendid for home use to kill cockroaches, ants and flies. By express, ¼ lb. 35c, 1 lb. \$1.25.

DRY POWDERED ARSENATE OF LEAD.—Because of its unusual lightness, stays thoroughly in suspension, giving the spray uniform strength. It contains from 30 to 33 per cent arsenic oxide. It clings to the foliage for the longest possible time, which means effective control of insects. Price: ½ lb. 35c, 1 lb. 60c, 5 lbs. \$2.75.

ARSENATE OF CALCIUM.—Arsenate of Calcium contains the maximum quantity of arsenic oxide, namely, 43 per cent, and when used according to directions will give splendid results. Price: ½ lb. 30c, 1 lb. 55c, 5 lbs. \$2.50.

BLACK LEAF 40.—This is about 40 per cent Nicotine. Very powerful and one gallon will make from eight hundred to one thousand gallons of spray. For outdoor uses and house plants indoors. Price: 1 oz. can 35c, ½ lb. \$1.25.

PARIS GREEN.—Sherwin-Williams Paris Green has by years of use proven its quality. It is one of the safest and most effective Paris Greens. Price: ¼ lb. 15c, 1 lb. 50c, 5 lbs. \$2.25.

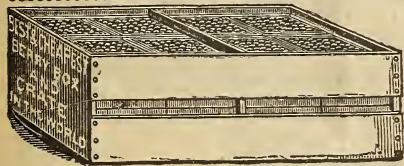
NICO-FUME.—A condensed preparation of tobacco, 40 per cent nicotine. Use one ounce in 10 to 15 gallons of water. Price: 4-oz. can 75c, 1 lb. \$2.25, 5 lbs. \$15.00.

TUBER-TONIC.—Dry Powdered Tuber Tonic is a combination spray having the desirable quick killing properties of Paris Green, and adhesiveness of arsenate of lead, and fungus preventive qualities of Bordeaux mixture. Large potato growers in this country have used Tuber-Tonic with splendid results. Price: 1 lb. 55c, 5 lbs. \$2.50.

WOLF'S GARDITE.—This is a splendid preparation for use at home either on flowers or vegetables. It is a dry powder in a carton with perforated top so that it is easily applied. Useful for house plants and in window gardening. Gardite is not poisonous, it is a thorough effective garden insecticide that does not contain one iota of poisonous chemicals or other ingredients harmful to human health. Price: 35 cents. postpaid. Ask for price in quantity.

FRUIT PACKAGES

We are prepared to furnish you the best stock made, at low prices. We handle a great many carloads each year, and from our long experience of more than a quarter of a century we are enabled to select superior stock. It pays to have bright stock which will make the fruit look nicer and sell better. Prices named here are subject to change during season. All goods in this department go by freight or express at customer's expense for carriage. If wanted by mail figure from Parcel Post Table on page 1, from weights given for each item, and send postage necessary.



BERRY BOXES.—Made of the best white wood (spruce), heart stock, cut smoothly, and perfect shape, size 4¼x4¼x 3¼, to hold a dry measure quart. The bottom is set up for ventilation. Usually put up in bundles of 500 boxes complete for shipment and all ready for putting together, which can be done very rapidly. 500 at the 1,000 rate; broken bundles at the 100 rate. Price per 100 75c; 1,000 \$6.00. Write for price in quantity. Weight, 15 lbs. per 100.

PINT BOXES.—Same as regular quart size except they are only two inches high. For red raspberries and other soft fruits. Price per 100, 70c; 1,000 for \$5.50.

CRATES.—Made of thoroughly seasoned stock, well ventilated at sides and bottom, but with a tight cover to protect from dust. We always ship in the flat or "knock down." They make a neat, strong and cheap package holding 24 quart boxes. Price: 24-qt. crates per 10 \$3.00, per 100 \$27.50. Weight, each 5 lbs.

CRATES FOR PINT BOXES.—24-pt. size, per 10, \$2.50; 100 for \$21.00. Weight 3½ lbs. each.

FOLDING PAPER BERRY BOXES.—Quart size. A handy box for small growers because no tacks or labor of making are required. Write for price after March 1st.

CRATE NAILS.—Far superior to common nails, as they hold much better. Ten pounds (makes 100 crates) \$1.00.

ANNEALED TACKS.—Made of the very best Swedes iron and of proper length so that they go through either two or three thicknesses of the material and clinch to hold securely. A lb. will make 1,000 boxes. Lb. 50c, 3 lbs. \$1.35.

STAPLING WIRE.—To use with a stapling machine for making boxes. Per coil of 12 lbs. \$1.80, 5 coils or more at \$1.75 per coil.

MAGNETIC TACK HAMMER.—Picks up the tacks and saves much of the labor. Each 25c. Mailing weight 1 lb.

SPHAGNUM MOSS.—For packing plants and soft nursery stock. Write for price in quantity. Large wired bale \$1.25; burlap covered bale \$1.75.

NURSERYMEN'S SUPPLIES

GRAFTING WAX.—A special preparation for application, where trees have been pruned; for preventing the loss of sap from wounds made in bark or from broken limbs and to hold grafts together. Price, ½ lb. pkg. 25c, postpaid.

TREE PRUNER.—Strong wooden handles 24 inches long; 1¼ inch cut; powerful and effective. The best pruner where branches are within reach. Each \$1.75. Mailing wt. 4 lbs.

WATER'S TREE PRUNER.—The standard make; with 6-ft. pole \$2.00; 8-ft. pole \$2.35; 10-ft. pole \$2.75. Can't mail.

IMPROVED HAND PRUNING SHEARS.—The best hand shears on the market. Made specially for pruning berry or rose bushes, grape vines, etc. Made of best steel, 8 inches long, straight spring (can't lose out). Price \$1.75. Mailing weight 1 lb. each.

CONNECTICUT PRUNING SHEARS.—A good tool for most work. Steel blades, spring and malleable handles. Price 85c. Mailing weight 1 lb.

TREE LABELS.—3½ inch, plain, copper wire. Per 100 45c, per 1,000 \$3.75. Not wired, per 100 30c, per 1,000 \$2.40. Mailing weight 4 lbs. per 1,000.

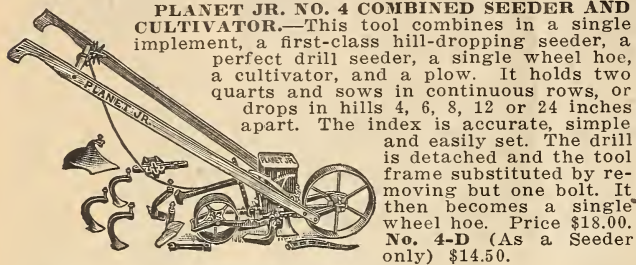
POT LABELS.—Smooth wood labels, 4-in. per 100 30c, per 1,000 \$2.40; 6-in. per 100 45c, 1,000 \$3.75; 10-in. per 100 1.00, per 1,000 \$9.00. Mailing weight, 4-in, 4lbs.; 6-in. 6 lbs.; 10-in. 10 lbs per 1,000.

PRUNING COMPOUND.—Sherwin-Williams Pruning Compound is one of the oldest mixtures of this type on the market. It is well known to many fruit growers. It is furnished in semi-paste form and thoroughly protects the wounds made in pruning, preventing the entrance of all moisture, and due to its antiseptic qualities, it prevents the development of fungus diseases which often take place unless the pruned wood is properly cared for. Price, per qt., 75c, gal. \$2.50.



Planet Jr TOOLS AND IMPLEMENTS

Two million workers, the world over, testify to the durability, economy, labor and time-saving advantages of all Planet Jr. tools. Wherever you are, whatever you grow, Planet Jrs. are scientific aids to bigger profits. Every tool guaranteed by the manufacturers. We have sold these machines for over forty years.



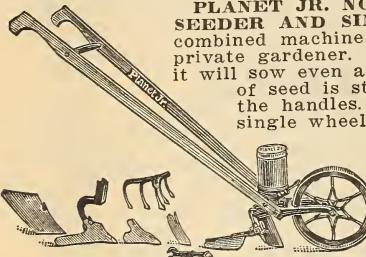
PLANET JR. NO. 4 SEEDER AND CULTIVATOR

PLANET JR. NO. 4 COMBINED SEEDER AND CULTIVATOR.—This tool combines in a single implement, a first-class hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and sows in continuous rows, or drops in hills 4, 6, 8, 12 or 24 inches apart. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. Price \$18.00. No. 4-D (As a Seeder only) \$14.50.



PLANET JR. NO. 25 HILL AND DRILL SEEDER

NO. 25 COMBINED SEEDER, DOUBLE AND SINGLE WHEEL HOE.—As a seeder this tool is the same as No. 4 described above but when used as a cultivator it can be set up either as a double or single wheel hoe. Has steel frames and straddles crops until 20 inches high. Two acres a day can easily be worked, and when it is done, it will be a better job than several men could have done in the same time with hand hoes. The most complete of the interchangeable tools Price \$22.00.



PLANET JR. NO. 31 COMBINED Combined Drill and Single Wheel Hoe. A cheap and durable tool for the small garden. Price \$6.00.

PLANET JR. STAR PULVERIZER, LEVELER AND WEEDER.—This new tool is especially adapted for preparing the seed bed, and will be found of great value in smoothing and fining the soil surface. The rear blade is 13½ inches wide. After the crops are started, it may be used between the rows as a weeder or as a crust breaker. If used frequently it is easy to operate and will keep the plot clean and mellow. Price \$6.50.

COLUMBIA GARDEN DRILL

The Columbia Garden Drill we consider one of the most perfect machine in the market for planting all kinds of seeds. It is not only adaptable to all kinds of vegetable seeds, but can also be used for planting seed grain or forage crops. A first-class seeder, but not a cultivator.

No. 10.—Like illustration. Strong, durable, simple and performs the work splendidly. Price, each, \$20.00.

No. 11.—Is exactly like No. 10, but has fertilizer attachments. Tremendous advantage gained in earliness and strong growth. Price, each, \$25.00.

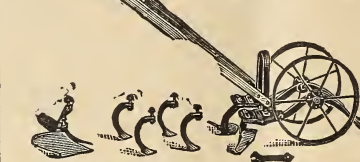


COLUMBIA GARDEN DRILL

We illustrate the most popular models of these valuable tools and will send catalogue describing many others for garden, farm or orchard, upon request. Send postal for complete Planet Jr. catalogue—today.

PLANET JR. NO. 3 HILL AND DRILL SEEDER.—A drill only. Style like No. 25, but has no attachments. Wheel diameter 15 inches; capacity of hopper three quarts. Specially designed for gardeners who want a large drill to run easy and plant closely. Price \$17.50.

PLANET JR. NO. 12 DOUBLE WHEEL HOE.—A double and single wheel hoe in one. Has steel frames, 14-inch steel wheel with heavy steel spokes and straddles crops until 20 inches high. Then can be worked between rows with one or two wheels. Does the work of six men with ordinary hand hoes. The attachments will all be found useful from the beginning to the end of the season. Price \$11.50.



PLANET JR. NO. 12 DOUBLE-WHEEL HOE

PLANET JR. NO. 16 SINGLE WHEEL HOE. (Price \$9.25.)

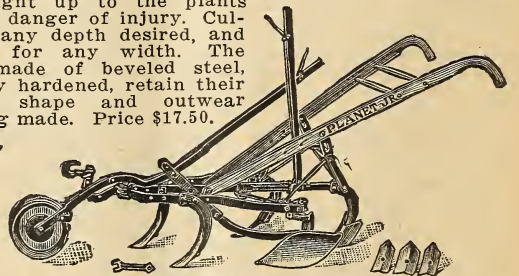
Have a great variety of attachments which adapt them to a large variety of work. Handles are adjustable in height. The frame is steel, convenient and strong, with a simple device by which to exchange the tools without removing the nuts. All attachments are of a special pattern, carefully tested. Steel parts are high carbon steel, oil tempered.

PLANT JR. NO. 17 SINGLE WHEEL HOE.—Same as No. 16, but has no rakes or leaf guards. Price \$7.75.

PLANET JR. NO. 17½ SINGLE WHEEL HOE.—Same as No. 16 but has only hoes and cultivator teeth. Price \$7.00.

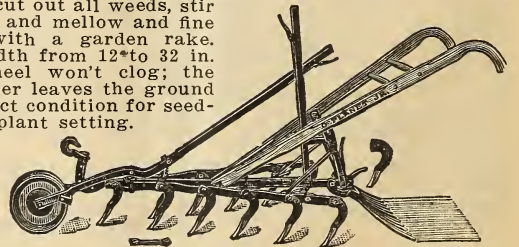
PLANET JR. NO. 18 SINGLE WHEEL HOE.—Same as No. 16 but has one pair 6-inch hoes only. Price \$5.75.

PLANET JR. NO. 8 COMBINED HORSE HOE AND CULTIVATOR.—No other cultivating machine is so widely known, for it is in use throughout the civilized world. So strongly built as to withstand incredible strain, yet light and easy to handle. Opens and closes furrows, hoes right up to the plants without danger of injury. Cultivates any depth desired, and adjusts for any width. The teeth, made of beveled steel, specially hardened, retain their cutting shape and outwear anything made. Price \$17.50.



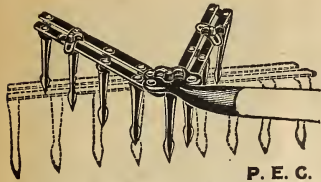
PLANET JR. NO. 8 HORSE HOE

PLANET JR. NO. 90 TWELVE TOOTH HARROW AND PULVERIZER. Price \$17.50. No. 90-B (less pulverizer) \$14.75. The chisel-shaped teeth on this tool go as deep or shallow as you like, close to row, without injuring plants, cut out all weeds, stir the soil and mellow and fine it as with a garden rake. Any width from 12 to 32 in. The wheel won't clog; the pulverizer leaves the ground in perfect condition for seedling or plant setting.



PLANET JR. TWELVE-TOOTH HARROW

YOU WORK AT COSTLY DISADVANTAGE IN THE GARDEN IF YOU DO NOT HAVE GOOD TOOLS TO PLANT AND CULTIVATE.



P. E. C.

PULL EASY GARDEN TOOLS

A line of adjustable hand tools very effective and low in price.

CULTIVATOR HOE NO. PE5.—Adjustable 6 in. to 12 in. wide. Five prongs each nine inches long. Sturdy 4 ft. handle. The long grasping teeth cultivate deeply and thoroughly. Instantly adjustable by loosening two broad winged thumb nuts, tightening the nuts. Tooth points concaved for scouring. Middle tooth removable. Price, each \$1.00. Mailing weight, 4 lbs.

CULTIVATOR RAKE NO. PEC.—Adjustable 6 in. to 18 in. wide, nine teeth. All steel parts enameled royal blue. French polished handle 4½ ft. long. Middle tooth removable for cultivating rows of small plants on both sides at the same time. Better than a rake for preparing the soil or for cultivating. Price, each \$1.20. Cannot mail.

PULL EASY DANDELION RAKE.—Wedge-shaped teeth, gather in leaves and stems of dandelions, stripping them from lawn. Backward stroke cleans rake instantly. Wonderfully popular. 16-gauge, high-carbon steel—18 inches wide, unbreakable teeth. Price 90c. Cannot mail.

RUBBER HOSE.—There is a great difference in the quality of rubber hose. The grade we offer is the very highest grade of wrapped hose, made to last. **The Good-year Elm Brand.** Diameter ½ inch, per foot 11 cents; ¾ inch per foot 12 cents; 1 inch per foot 14 cents. If less than 50 feet is ordered add 25 cents extra for coupling. Coupling is free with 50-ft. orders. Standard nozzle, each \$1.25 extra.

DUDE HOSE REEL.—It pays to use a reel as it keeps the hose in better shape and saves labor. All metal, each \$3.00; wood, each \$2.50.



THE
CYCLONE
SEED SOWER

THE SOWER THAT
SCATTERS EVENLY

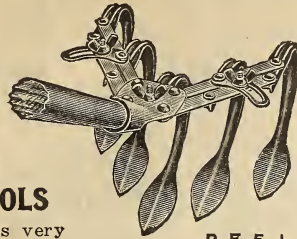
and corn equal to any corn planter. See cut. Price \$2.00.

EXCELSIOR WEEDING HOOK.—Can be used to advantage among small and tender plants. By parcel post each 25c, doz. \$2.50; by exp. 20c, doz. \$2.25.

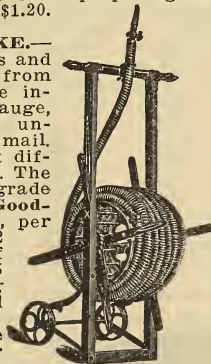
BLUE GRASS STRIPPERS.—For gathering seeds. Ea. by exp. \$2.50. Mailing wt. 4 lbs.

GARDEN TROWELS.—By parcel post 5-in. 20c; 6-in. 25c. By express

**LANG'S
HAND
WEEDER**
HANDIEST
TOOL
ON EARTH.



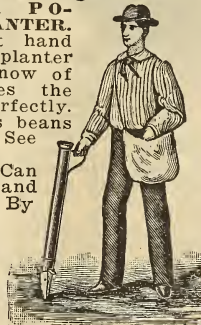
P. E. 5



DUDE HOSE REEL

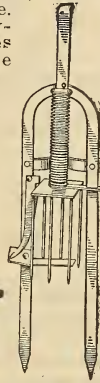
CYCLONE SEED SOWER.—Farmers should have a small hand seed sower for emergency use. This is an improved style, strong, well made and durable. It is very easy to understand and easy to operate. Directions with each machine. By express \$2.00. Mailing weight 4 lbs.

EUREKA POTATO PLANTER.—The best hand potato planter that we know of as it does the work perfectly. Also plants beans

EUREKA POTATO
PLANTER

5-in. 15c, 6-in. 20c

LANG'S HAND WEEDER.—Is in our opinion the best; its special feature a band which passes over the fingers, which, when the tool is not in use, gives full use of the hand for pulling weeds and thinning out plants without laying down the tool. Price 25c each, postpaid. By express, per dozen \$2.00.

LITTLE
GIANT
MOLE
TRAP

HOLDEN'S IDEAL CORN TESTER.—NO. 1.—Made of galvanized iron as per pattern shown in the illustration. It is for testing ears of seed corn before shelling for seed. Capacity of this size 400 ears (one to each compartment) and each compartment is removable at will. It is quite simple in operation and full directions for use will be sent with each tester. By express or freight, not prepaid, \$13.00.

HOLDEN'S IDEAL CORN TESTER.—NO. 2.—A cabinet tester with capacity for 400 tests at one time. By express or freight, each \$22.00.

No. 4.—A single box tester of galvanized iron; capacity 200 tests. By express or freight, each \$7.00.

LITTLE GIANT MOLE TRAP.—Not so large as the Reddick, but principle is similar. Strong, durable and will do the work. Easily set. Has a strong spring with great force. Each, by express, \$1.00. Mailing weight 2 lbs.

REDDICK MOLE TRAP.—If you are bothered with moles you should purchase one of these traps. It is undoubtedly the best trap made and no mole can pass under it and live. Price, by express, \$1.10. Weight 3 lbs.

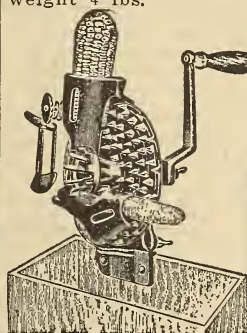
DIBBER.—Steel pointed for transplanting vegetable plants. Each 35c, postpaid.

HAZELTINE HAND WEEDER.—This hand weeder is about 9 in. long. For hand weeding it is extremely useful because it will be found almost necessary in the proper management of small vegetables and flowers. It has five sharp edges. Each 35c, postpaid. By exp., per doz. \$3.00.

FLORIST TROWELS.—Extra heavy and durable. Best made. By parcel post, each 50c; by express, each 40c.

EUREKA SEED DRILL.—A small hand drill for vegetable seeds in beds. Gardeners will like it for sowing seeds in hot-beds. By express, \$1.25. Weight 3 lbs.

SEGMENT HAND CORN PLANTER.—Operated with one hand. An immense amount of ground can be planted in one day. Drops as fast as you can walk, and you make it drop where you want it. Open drop by simply bending the spring which controls the hopper opening and permits the corn to fall through. You can also plant beans or peas and it drops pumpkin seed by a simple operation without interfering with the corn planting. Price, each, by express, \$2.00. Mailing weight 4 lbs.

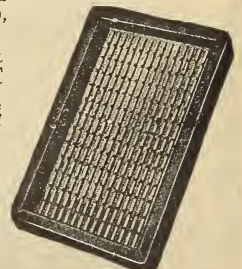


STAR CORN SHELLER.—A fine sheller for hand use. Has attachment for shelling tips and butts separately, making it desirable in saving seed corn. We also sell an extra attachment for shelling pop corn. Can be fastened on a box and has reversible chute which throws cobs out at the rear away from the shelled corn. Strong, well made, and will last a lifetime. At our very low price, we consider it the best hand sheller on the market. Each, by express, \$2.00, wt. 12 lbs.

**PLANTER
PATENT
SEED CORN**

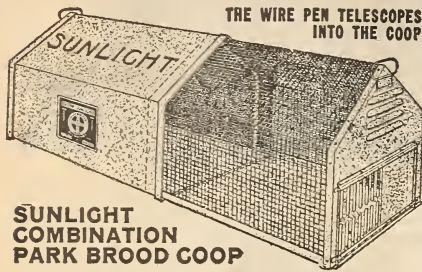
GRADER.—Single Sieve. —A sieve grader 12x18 in. in size with screen of heavy galvanized iron and mesh especially suited to grading seed corn before planting. A cheap, quick and effective method of eliminating tip and butt grains and preparing seed for edge dropping. Each by express, \$1.00. Mailing weight 3 lbs.

Double Sieve.—Like above, with two sieves attached. Each, by express, \$1.25. Mailing weight 5 lbs.



SEED CORN GRADER

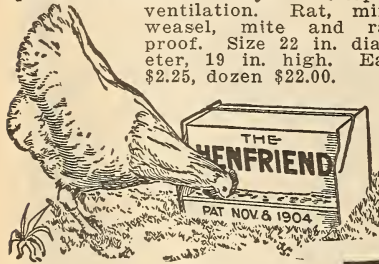
POULTRY SUPPLIES



SUNLIGHT COMBINATION PARK BROOD COOP

SUNLIGHT BROOD COOP.—An all metal coop as shown in illustration. Size of coop 18 in. wide, 24 in. long, 19½ in. high, while the wire park is practically the same size. The pen telescopes into the coop portion if desired and has handles by which it is moved. Each \$4.00, six for \$22.00.

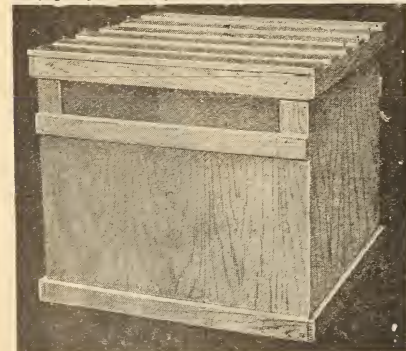
THE LUTHE BROOD COOP.—Round metal coop, made of galvanized iron, with sliding door which can be fastened open at desired size. Adjustable top for ventilation. Rat, mink, weasel, mite and rain proof. Size 22 in. diameter, 19 in. high. Each \$2.25, dozen \$22.00.



HEN FRIEND DRINKING FOUNTAIN.—Galvanized iron. Easy to fill, clean and move as wanted. Cut shows its advantages. Prices by express, 2-qt. size each 45c; 5-qt. each 60c; 10-qt. each 90c. Mailing weights: 2-qt., 1 lb.; 5-qt., 2 lbs.; 10-qt., 3 lbs.

IOWA SHIPPING COOPS.—All wood. Sides and end pieces nailed together with cleats so that coops are readily made in using form. As shown by cut coops are ventilated front and back and top is covered with slats, giving thorough ventilation. Cleats around upper and lower end make it easy to handle.

Dimensions Weight ¼ doz. 1 doz.
No. 1—12x20x18 in. 6 lbs. \$2.00 \$7.20
No. 3—18x20x18 in. 10 lbs. 2.75 10.50
No. 5—30x20x18 in. 14 lbs. 3.25 12.00



IOWA SHIPPING COOP.

POULTRY NETTING

We can supply both the hexagon mesh and also the square mesh at same price. The best make; thoroughly galvanized before weaving, to prevent rusting, and properly twisted. Prices are subject to important market changes: Made of No. 19 wire and 2-inch mesh; put up in rolls 150 feet in length.

Width Inches	Per Roll	Width Inches	Per Roll
12	\$ 2.00	36	\$ 5.00
18	3.00	48	7.00
24	3.80	60	8.50
30	4.50	72	10.00

One-inch mesh, No. 20 wire, for young chicks and Belgian hares.
12 \$ 4.00 30 \$ 9.00
18 6.00 36 10.00
24 7.50 48 13.25
5 per cent discount on 5 rolls or more.
Cut rolls, any width, 2-inch mesh, 2c per sq. ft.; 1-inch mesh, 4c per sq. ft.

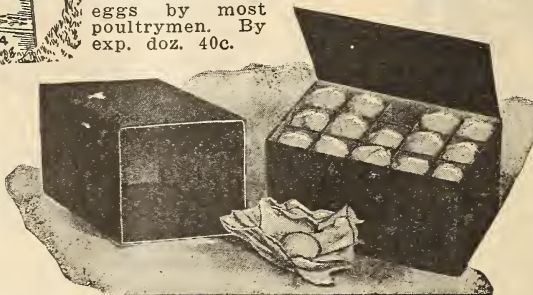
GALVANIZED STAPLES.—For fastening wire poultry netting, 15c per lb.

BANNER POULTRY FENCE.—Made of heavy No. 17 galvanized wire with small square mesh at bottom, ranging larger at top. Strong and durable. Put up in rolls of ten rods length.

Width	Cut Rolls Per 10 Ft.	Full Roll	Five Rolls
36-inch	\$.50	\$6.00	\$27.50
48-inch	.60	7.00	32.00
60-inch	.70	8.00	36.00
72-inch	.80	9.00	40.00

GLASS NEST EGGS.—By mail in regular Ship-safe egg case, which may be used to ship eggs for hatching, 12 for 95c; 50 for \$2.25, postpaid.

LIME NEST EGGS.—Preferred to glass eggs by most poultrymen. By exp. doz. 40c.



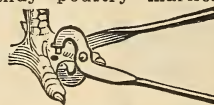
CORRUGATED EGG CASE.—Like picture but shipped in flat, saving freight or express charges. We recommend them. Price, 15-egg size \$2.40 per doz., 30-egg \$3.50 per doz., 50-egg \$5.00 per doz., 100-egg \$7.00 per doz. Mailing weight, 15-egg size, 1 lb.; 30-egg size, 2 lbs.; 50-egg size, 3 lbs. each.

LIVE CHICK BOX.—Made from corrugated paper with ventilating holes in top and sides; for shipping small, live chicks. 25-chick size \$1.65 per doz., 50-chick size \$2.25 per doz., 100-chick size \$3.00 per doz. Mailing weight, 25 size, 2 lbs.; 50 size 4 lbs.; 100 size 6 lbs.

CLIMAX BASKETS.—The ordinary 7 lb. grape basket with cover and handles. They are desirable for shipping eggs for setting; will hold two settings of Leghorns, etc., or one of Asiatic. Price per 10, \$1.00; 50 for \$4.00, 100 for \$7.00. Weight 1 lb. each.

PHILADELPHIA POULTRY MARKER.—A convenient little spring punch for marking chickens. Marks small hole in web of the foot, 30c each, postpaid.

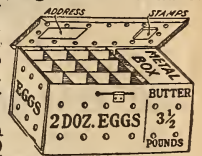
PILLING LANSLOWNE POULTRY MARKER.—A handy poultry marker. Look at the illustration and see how easy it is to use. Large or small size sent postpaid for 30c.



Prices are subject to important market changes. Transportation to be paid by purchaser except where marked postpaid. In sending postage for items which you want to come by parcel post, be sure to add 1 pound to stated weight of package goods.

METAL PARCEL POST EGG CRATE.

—Made of aluminum, light and durable. Can be used many times. 16 to 24 cents pays postage both ways on two to six dozen eggs. Add 7c for postage on each crate.



Size Each
Two dozen \$1.00
Three dozen .. 1.25
Four dozen ... 1.50
Six dozen 1.75
A complete set of supplies furnished with each crate. Set consists of fillers, slip papers, 100 wrappers for eggs and two address cards. Price per set for six dozen size 60c, other sizes 50c. State size of crate in ordering supplies.

PLYMOUTH ROCK POULTRY FOODS

We manufacture Plymouth Rock Chick Food, Plymouth Rock Egg Mash, Plymouth Rock Hen Food and Plymouth Rock Buttermilk Food. The best materials and sound grains only are used.

See farm seed price list with this catalog. Descriptive circular and current price list free on request.

POULTRY REMEDIES

Write for price on larger quantities.

	Post- paid
Wolf's Germite (tablets)....	.50 \$.55
Wolf's Vermite (powder)....	.25 .30
Conkey's Roup (powder)....	.50 .55
Conkey's Cholera (powder)...	.50 .55
Conkey's Poul. Tonic (1½ lb.)..	.25 .32
Conkey's Lice Powder (lb.)...	.25 .31
Conkey's White Diarrhea....	.50 .55
Conkey's Nox (in soap form)	
a powerful disinfectant.	
Add water60 .65

EGGS FOR HATCHING

	Setting 13 eggs.
If 15 are wanted for a setting add 40c.	
Barred Plymouth Rocks.....	\$1.75
White Plymouth Rocks.....	1.75
Puff Plymouth Rocks.....	2.00
White Wyandottes.....	2.00
Silver Laced Wyandottes.....	2.00
Black Langshans.....	2.00
Brown Leghorns.....	1.75
White Leghorns.....	1.75
Light Brahmas.....	2.25
Rhode Island Red.....	2.00
Puff Orpington.....	2.25
Bronze Turkeys (9 eggs).....	4.00
White Pekin Ducks (12 eggs)...	2.50
Write for price on quantity for incubators. Breeding stock for sale. Ask prices.	



LEADER LEG BAND—No. 2—An adjustable band which can be used for any sized fowl from a bantam to a turkey. Made of aluminum, light and smooth. Doz. 20c, 100 \$1.00, postpaid. 500, not prepaid, \$4.00.

LEADER LEG BAND—No. 1—For bantams and smaller breeds. Doz. 20c, 100 75c, postpaid; 500, not prepaid, \$3.00.

KEY RING LEG BANDS.—Made of celluloid in six sizes and ten colors. Spread easily to put on leg of fowl. Have no sharp edges and are easy on the fowl's legs. Sizes: Asiatic, American, Mediterranean, Bantam, Pigeon and Baby Chick. Specify number of each color wanted. Prices, 3 largest sizes, per doz. 15c, 100 75c, 1,000 for \$6.50, postpaid; 3 small sizes, dozen 15c, 100 65c, 1,000 for \$5.50, postpaid.



SUCCESSFUL GRAIN SPROUTER

For sprouting oats or other grain for poultry. Made entirely of galvanized steel in sections as shown in illustration. Each section holds two trays for grain. Sections are interchangeable and sprouter may be enlarged by additional sections as needed. Five sizes. No. 1—Base and 1 Section, wt. 50 lbs.—2 trays. Price holds 8-10 qts. dry grain (30 to 60 hens)....\$12.00 No. 2—Base and 2 Sections, wt. 70 lbs.—4 trays, holds 16-20 qts. dry grain (75 to 100 hens).... 15.00 No. 3—Base and 3 Sections, wt. 85 lbs.—6 trays, holds 24-30 qts. dry grain (130 to 200 hens).... 18.75 No. 4—Base and 4 Sections, wt. 100 lbs.—8 trays, holds 32-40 qts. dry grain (250 to 300 hens).... 22.00 No. 5—Base and 5 Sections, wt. 115 lbs.—10 trays, holds 40-50 qts. dry grain (400 to 600 hens).... 25.00 Each additional Section and 2 galvanized all-steel trays, wt. 20 lbs..... 5.50

RELIABLE STANDARD INCUBATORS

In changing our line of Incubators this year we have chosen the Reliable, because it has 38 years history and stands at the head of the incubator list in the estimation of experienced poultrymen. Complete descriptive catalogue of Reliable Incubators free.

No. 49a—100 eggs, Hot Air.....	\$22.50
No. 50a—100 eggs, Hot Water.....	28.00
No. 51—140 eggs, Hot Air.....	31.00
No. 52—140 eggs, Hot Water.....	37.00
No. 53—240 eggs, Hot Air.....	43.00
No. 54—240 eggs, Hot Water.....	51.50

Ask for prices on larger sizes.

INTERNATIONAL SANITARY HOVER

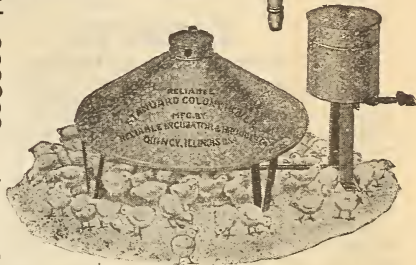
The wall of the International Sanitary Hover is a canvas curtain lined with a woolen substance. Capacity 100 chicks. Diameter 28 inches. Height at center 13½ inches. Height to top of draft pipe 34 inches. Curtain is six inches oversize to allow for shrinkage. Weights about 18 pounds. Shipping weight 25 to 30 pounds. Price, each \$13.50.

RELIABLE COAL BURNING BROODER

Solid gray iron castings throughout. Anthracite lasts 24 hours, soft coal 10 to 12 hours without refilling. Hover of steel, like illustration of Blue Flame. No. 9—42 inch; 100 to 500 chicks.....\$21.50 No. 10—52 inch; 500 chicks and over..... 26.50



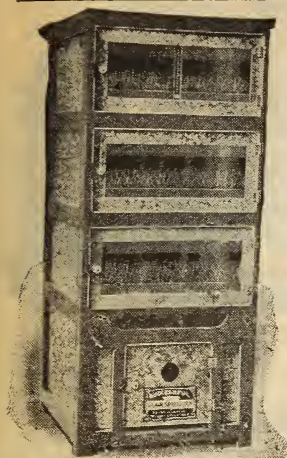
RELIABLE STANDARD INCUBATORS



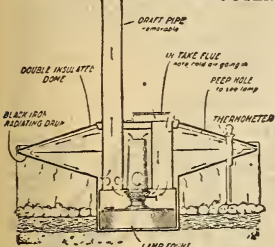
RELIABLE BLUE FLAME HOVER.

Burns Kerosene, and is moveable. Made by Reliable Incubator Co.

No. 0—30 in., 350 chicks.....	\$17.50
No. 1—42 in., 500 chicks.....	18.00
No. 2—52 in., 1,000 chicks.....	21.50



SUCCESSFUL GRAIN SPROUTER



INTERNATIONAL HOVER



TOP FILL FOUNTAIN



GRIT AND SHELL BOX



SANITARY FEED TROUGH



DRY FEED HOPPER



STAR FOUNTAIN

MOE'S TOP FILL FOUNTAIN.—Won't stop over. Dead air space keeps water cool in summer, warm in winter. Simple in construction. Remove cover and fill from top. Water ceases to flow when cover is removed. By express, 1-gal. \$1.75; 2-gal. \$2.40; 4-gal. \$3.25. Mailing weights: 1-gal. 3 lbs.; 2-gal. 5 lbs.; 4-gal. 10 lbs.

MOE'S DRY FOOD HOPPER.—As shown by illustration, this hopper is devised to permit fowls access to the feed without scattering or wasting. Two sizes. No. 35 \$1.50; No. 36, \$2.00. Mailing weights: No. 35, 3 lbs.; No. 36, 5 lbs.

TURK'S VACUUM POULTRY WATERER

Made after the principal of the Thermos bottle to keep water warm in winter and cool in summer. Made of best galvanized iron, holds four gallons. Ea. \$3.75, 3 for \$10.50

MOE'S GRIT AND SHELL BOX.—Has three compartments for grit, shell and charcoal; galvanized iron. Can be used as feed hopper for small chicks; ½ pk. By express \$1.00. Wt. 4 lbs.

MOE'S TRAP NEST.—Made of galvanized iron in 2 sizes. Front drops when hen enters. Price, No. 33, for Mediterranean breeds, size 12x12x12, each \$1.50; No. 34, for larger breeds, size 12x12x14, each \$2.00. Mailing wt.: No. 33, 5 lbs.; No. 34, 6 lbs. Fronts only for fastening to ordinary nest boxes, each 60c.

STAR FOUNTAIN.—Made for Mason jar, like Northwestern, but it is star-shaped. Not so much water is exposed, and fowls cannot pollute it while drinking. Ea. 20c, postpaid. By exp., doz. \$1.50.

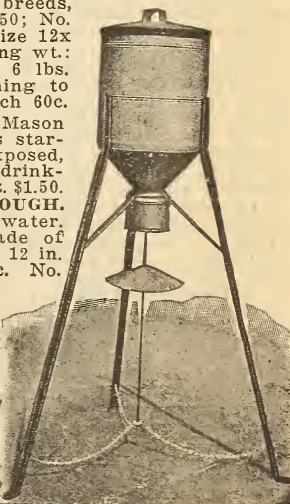
MOE'S SANITARY FEED TROUGH.—Can be used for feed, mash or water. Barred top prevents waste. Made of galvanized iron. By exp. No. 21, 12 in. long, each 65c; No. 22, 18 in. 90c. No. 23, 24 in., \$1.00. Mailing weights: No. 21, 1 lb.; No. 22, 2 lbs.; No. 23, 4 lbs.

O. K. AUTOMATIC FEEDERS.

—As shown in our illustration. No. 1, has capacity of ½ bu., with stand, each \$4.00. No. 2, capacity 1 bu., with stand, each \$4.25.

APACO AUTOMATIC FEEDER.

—Similar in style to the O. K. machine illustrated here, except that it has no legs and is to be suspended from hook or nail. Capacity 12 qts. of grain. Each only \$1.00, dozen \$10.00.



O. K. AUTOMATIC FEEDER

BONE CUTTERS AND MILLS

HUMPHREY'S GREEN BONE AND VEGETABLE CUTTER.—One of the leading bone cutters. Be sure and investigate this before you purchase. Manufacturer's guarantee with each cutter sold. No. 1 cutter, \$20.00; No. 2½, semi-power, \$25.00; No. 2, all-power cutters, each \$22.50.

HUMPHREY'S RAPID CLOVER CUTTER.—For cutting clover, alfalfa, etc., which are essential foods for poultry. Strong and durable, with five cutting knives and double-edge stationary knife which is reversible. Each \$19.00.

CROWN BONE CUTTERS.—No. 1—Weights 50 lbs.; is to be bolted to bench or table for operation. Each \$15.00.

No. 2—Same as above, but has a tripod metal stand upon which cutter is fastened. Wt. 80 lbs. Each \$18.00.

MODEL GRINDING MILL.—To grind shell, grit, bone, and grains. Easily adjusted to grind coarse or fine as desired. No. 1, each \$3.50. No. 2, each \$6.00.



HUMPHREY'S CUTTER

THE LATEST AND BEST DEVICES AND APPLIANCES FOR LESSENING THE LABOR IN THE POULTRY YARD ARE LISTED HERE.

BIRDS



PARROTS

GUARANTEED TALKERS

A bird that talks has a wonderful charm. Below we offer tame, hand raised parrots guaranteed to learn to talk within 6 months.

ROYAL AZTEC DOUBLE YELLOW HEADS—Our very finest talking strain, unsurpassed as imitators of the human voice. They are superior to all other American parrots and make most fluent talkers. Price \$20.00. Ask for prices on young birds in July.

MEXICAN DOUBLE YELLOW HEADS—Good birds guaranteed as above and second only to the Royal Aztecs. Price \$16.00.

MEXICAN RED HEAD PARROTS—Medium size, make nice talkers and great pets. Young birds ready in July. Price \$3.00 each during July and August.

PANAMA PARROTS—Large, green parrots, very fluent talking species. Usually in stock entire year. Price \$25.00 each.

PARROT BELLS—Each 12c, postpaid.

ROUND PARROT CAGES—Tinned wire, durable and very satisfactory. 14-in. \$7.00; 16-in. \$8.50; 18-in. \$10.50.

GOLDFISH

GOLD FISH—We refer only to the plain variety by this name. These are more popular than the fancy sorts, below priced and generally satisfactory. Those bred in Iowa seem to have a peculiar brilliancy of coloring. Prices 15c, 25c, 35c, 50c and \$1.00 each, according to size. The 25c size (5 for \$1.00) is the most popular. The largest size are for ponds or fountains. If fish are ordered without globe you should include a shipping bucket in your order.

SILVER FISH—This is simply an uncolored gold fish of dark silvery color. Medium size 15c to 25c each.

PEARL FISH—Elegant fish, pearly white, or white is variegated with gold markings. Medium size 25c to 75c each.

AMERICAN FANTAIL FISH—Are bred from the imported Japanese fish. Very handsome. Price according to size, shape and color, 50c, 75c and \$1.00 each.

ORIOLE FISH—Are beautifully variegated golden red and clear black. Medium size 25c to 75c each.

COMET FISH—Also called "Long-Tailed Beauties," and "Fancy Gold Fish." The most graceful in their movements of all aquaria fish. Medium size 35c each; large 75c each.

JAPANESE FANTAIL FISH—Most popular fancy fish and most satisfactory of imported varieties. Fins and tails are of delicate lace-like appearance. Tail beautifully variegated usually with golden red and pearly white or black. Choice specimens 75c to \$2.50.

TELESCOPE FISH—A very curious appearing fish which always attracts attention by its "extreme ugliness." Its eyes are abnormally large and bulging. Price \$1.00 to \$1.50. Black Telescopes, which are quite rare, \$3.00 ea.

"Little Dewdrops of Celestial Melody." The music of a good singer makes the whole house more cheerful and every member of the family enjoys the pure, clear notes of a happy little song bird. Ask for illustrated bulletin. Express charges are to be paid by purchaser on goods on this page except where stated. Complete bird and fish catalogue free.

ST. ANDREASBERG ROLLER CANARIES—Without doubt the finest songsters in the world. Their tones are sweet, round and full, consisting of delightful bell notes, low water bubble, charming flute notes and long, silvery trills. They are an ideal bird for an invalid. Each \$15.00.

HARTZ MOUNTAIN CANARIES—From the Hartz Mountains. Famous for their clear, pure, beautiful song—a restful melody. Because their voice is just as nature gave it—unchanged by any training—we call them Nature's Solo Singer. These are the finest singers ever offered at the price. Males, guaranteed good singers, each \$10.00.

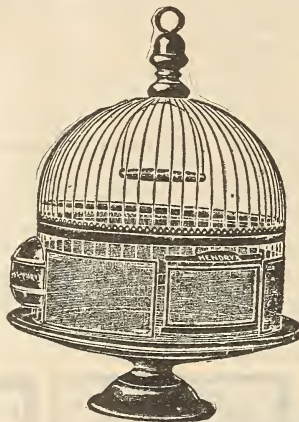
FEMALE CANARIES—Females \$1.50 to \$2.50 each. Roller females \$3.00 each.

CHORUS LEADERS—These birds are trained singers. Male birds, guaranteed. Each \$20.00.



HARTZ MOUNTAIN CANARY

OTHER BIRDS—If you want any other birds please write. Complete bird catalog free.



CLIMAX CAGE

HOME COLLECTION

Consists of one 4-quart Globe, three pretty Fish, Shells, and Food. Weight packed about 13 pounds. Price \$1.60.

PARLOR COLLECTION

Consists of one 8-quart Globe, five Fancy Fish, Food, Plant Shells. Shipping wt. about 25 pounds. Price \$2.60.

GLASS FISH GLOBES—These are neat, cheap and consequently more popular than the large aquariums. Like cut below. Measurements approximate. 2-qt.—6 in...\$.45 4-qt.—8 in...\$.85 8-qt.—10 in...1.25 12-qt.—11 in...2.00



GLASS FISH GLOBE

PREPARED FISH FOOD—Good for all kinds of gold fish. This we import from Europe, where they make the best. Price, 10c per box, postpaid.

DIP NETS—For handling fish without danger of injuring them. Medium size, 50c, postpaid.

AQUARIA CEMENT—Invincible waterproof cement, to set glass in aquariums. Lb. 45c, postpaid.

BIRD SEED

Add postage if to go by parcel post. Our seed and foods are carefully selected and of the best quality. They are far superior to commercial package goods, put up by firms not experienced with birds. As you value the life of your birds feed our fresh seed. Per lb.

Superior Mixed Bird Seed (6 lbs. \$1)....\$.20
German Summer Rape......15
Sicily Canary......20
Mammoth Russian Sunflower......15
Mixed Parrot Seed......20

"BIRD HEALTH"—Will make your bird sing. Bird fanciers everywhere use this preparation with great success. Composed of 16 materials properly combined to keep bird healthy. Feed during mating season. Box of Bird Health 15 cents. 8 for \$1.00, postpaid.

CUTTLE BONE—10c each, postpaid.

TOY BELLS—For birds, 10c, postpaid.



Our Bird Health Makes Your Bird Sing

BIRD CAGES

IMPROVED BRASS CAGES—Standard rectangle shape. Made of best brass wire. 6x9 \$3.50; 7x10 \$5.25; 8½x11 \$6.00.

IDEAL BRASS CAGE—Like the improved style but has brass screen around lower part. Size 5x9 \$5.25; 7x10 \$6.50; 8½x11 \$7.50.

BREEDING CAGES—Wood frame. Single compartment: 17 in. long \$3.75; 19 in. \$4.50. Double: 18 in. \$4.75; 20 in. \$5.50; 22 in. \$6.50.

JAPANESE OR PAINTED CAGE—Best cage on the market for the money. It is neat, durable and convenient.

No.	Size	Wt.	Price
165H	6½x9½ in.	4 lbs.	\$2.50
167H	7½x11 in.	5 lbs.	3.00
168H	8½x12½ in.	5 lbs.	3.50

CLIMAX CANARY CAGE—(See cut)—Very popular style. Diameter 11 inches, total height 17½ inches. Shipping weight 6 lbs. Price, by express, each \$5.50.

WIRE NESTS—15c each. Postage on one to three nests 4c extra.

AQUARIUMS

STANDARD AQUARIUM—Strong iron frame, thick slate bottom.

No. 1, size 18x10x11, 5 gal.....\$10.00
No. 3, size 22x14x13, 12 gal.....14.00
Dimensions are outside measure.

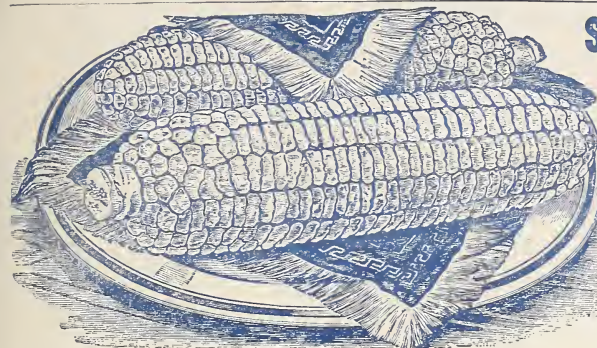
AQUARIUM CASTLES—Very pretty. No. 12, 3 in. high, ea. 50c; parcel post 1 lb. No. 14, 6 in. high, ea. 60c; parcel post 3 lbs. No. 15, 8 in. high, ea. 90c; parcel post 3 lbs.

SHIPPING BUCKETS—To ship fish. 3-quart tin, for 6 medium fish, 25c each. 4 quart, 35c. 6-quart, for 12 medium fish, 45c each.

AQUARIA MOSS—Bunch 10 stems 25c.

SALVINA—Bunch 15c, doz. \$1.50.

LUDWEGIA—Each 15, 4 for 50c.



EARLY SUNRISE CORN

SUPERLATIVE SPECIALTY COLLECTION

Five Splendid Vegetables, Each the Best of Its Type

All of the items included in this collection are our own introduction and are not all obtainable at other houses. We want you to know the superior quality of these vegetables and offer you a bargain here that you may try them at low cost. Description of each will be found in the body of the catalogue.

SUPERLATIVE COLLECTION NO. 1.—One packet each: Superlative Tomato, Des Moines Squash, Market Gardeners Beet, Golden Sweet Watermelon, and Early Sunrise Sweet Corn as illustrated in color on the back of the catalogue. Postpaid for..... **35 Cents**

SUPERLATIVE COLLECTION NO. 2.—1 packet Superlative Tomato, one ounce each of Market Gardeners Beet, Des Moines Squash, Golden Sweet Watermelon, and one-fourth pound of Early Sunrise Sweet Corn, all sent postpaid for only..... **70 Cents**

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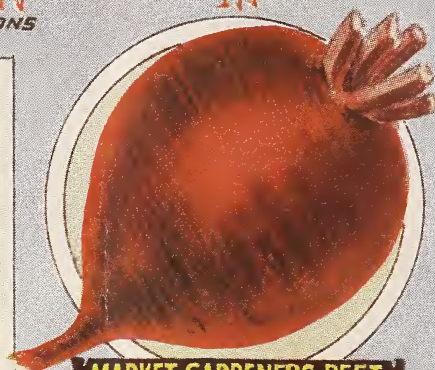
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DES MOINES SQUASH



EARLY SUNRISE SWEET CORN



MARKET GARDENERS BEET



SUPERLATIVE TOMATO



GOLDEN SWEET WATER MELON

SUPERLATIVE SPECIALTY COLLECTION
 FIVE OF OUR OWN INTRODUCTION
 COLLECTION NO. 1 PRICE 35 CENTS
 COLLECTION NO. 2 PRICE 70 CENTS

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